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Missiles & Space Company, Inc
Huntsville Engineering Center

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Appendix A

FILAMENT WOUND DATA BASE DEVELOPMENT

Revision 1
March 1985

Contract NAS8-35054

Prepared for National Aeronautics and Space Administration
Marshall Space Flight Center, AL 35812

by

R. Scott Sharp
William F. Braddock

(NASA-CR-179069) FILAMENT WOUND DATA BASE DEVELOPMENT, REVISION 1, APPENDIX A (Lockheed Missiles and Space Co.) 208 p
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43358

APPROVED C. Donald Andrews

C. Donald Andrews, Manager
Systems Anal. & Sim. Section

FOREWORD

This appendix presents the High Performance Nozzle Increments, Filament Wound Case (FWC) Systems Tunnel Increments, Steel Case Systems Tunnel Increments, FWC Stiffener Rings Increments, Steel Case Stiffener Rings Increments, FWC External Tank (ET) Attach Ring Increments, Steel Case ET Attach Ring Increments, and Data Tape 8 in tabular form. The High Performance Nozzle Increments are also presented in graphical form.

Each page of the tabular data consists of six-component force and moment coefficients as they vary with angle of attack at a specific Mach number and roll angle. The angle of attack range is from 0 to 180 deg in 5 deg increments. The six coefficients are normal force (CN), pitching moment (CM), side force (CY), yawing moment (CYM), axial force (CA), and rolling moment (CR). Each successive page is incremented for roll angle in 45 deg increments for a roll angle range of 0 deg only for the High Performance Nozzle Increments and the Steel case Stiffener Rings Increments, 0 to 90 deg for all other increments, and 0 to 360 deg for Data Tape 8. The Mach numbers in the data base for the High Performance Nozzle Increments are 0.4, 0.5, 0.55, 0.6, 0.7, 0.8, 0.9, 0.95, 1.05, 1.1, 1.2, 1.3, 1.46, 1.96 and 2.99. The Mach numbers in the data base for Data Tape 8 are 0.4, 0.5, 0.55, 0.6, 0.7, 0.8, 0.9, 0.95, 1.05, 1.1, 1.2, 1.4, 1.96, 2.5, 3.0, 3.48. Mach numbers in the data base for the other increments are 0.6, 0.9, 1.1, 1.3, and 2.99.

Each page of the graphical data for the High Performance Nozzle Increments consists of a plot of a coefficient increment as a function of angle of attack at a specific Mach number and at a roll angle of 0 deg. Each successive plot is incremented for Mach number before proceeding to the next coefficient. Only the normal force, pitching moment, and axial force increments are presented as the lateral directional data are all zero.

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This report is presented in three parts:

Summary Report, LMSC-HREC TR D951500-1
Tabular Data, LMSC-HREC TR D951500-1A
Graphical Data, LMSC-HREC TR D951500-1B.

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High Performance Nozzle Increment Plots

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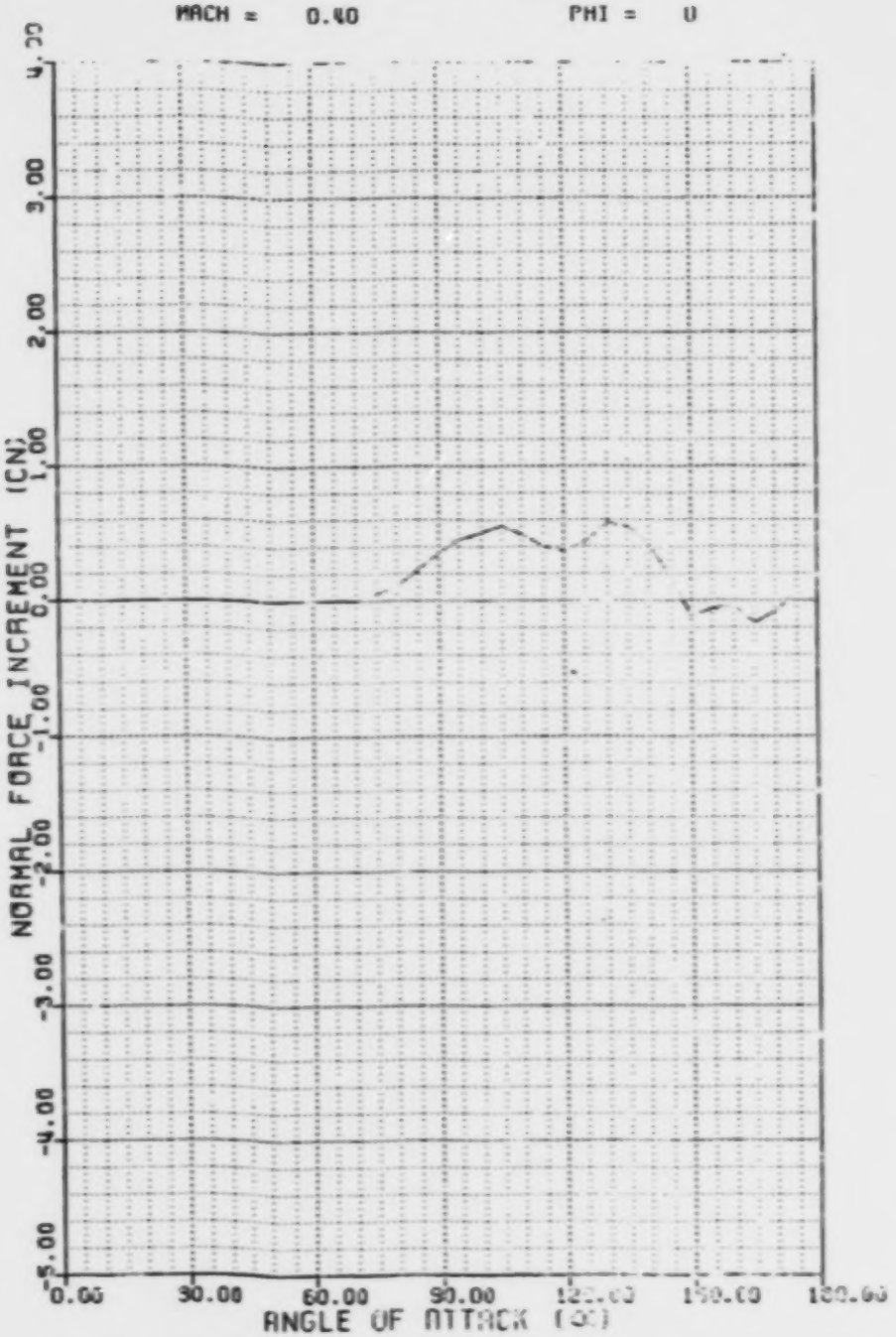

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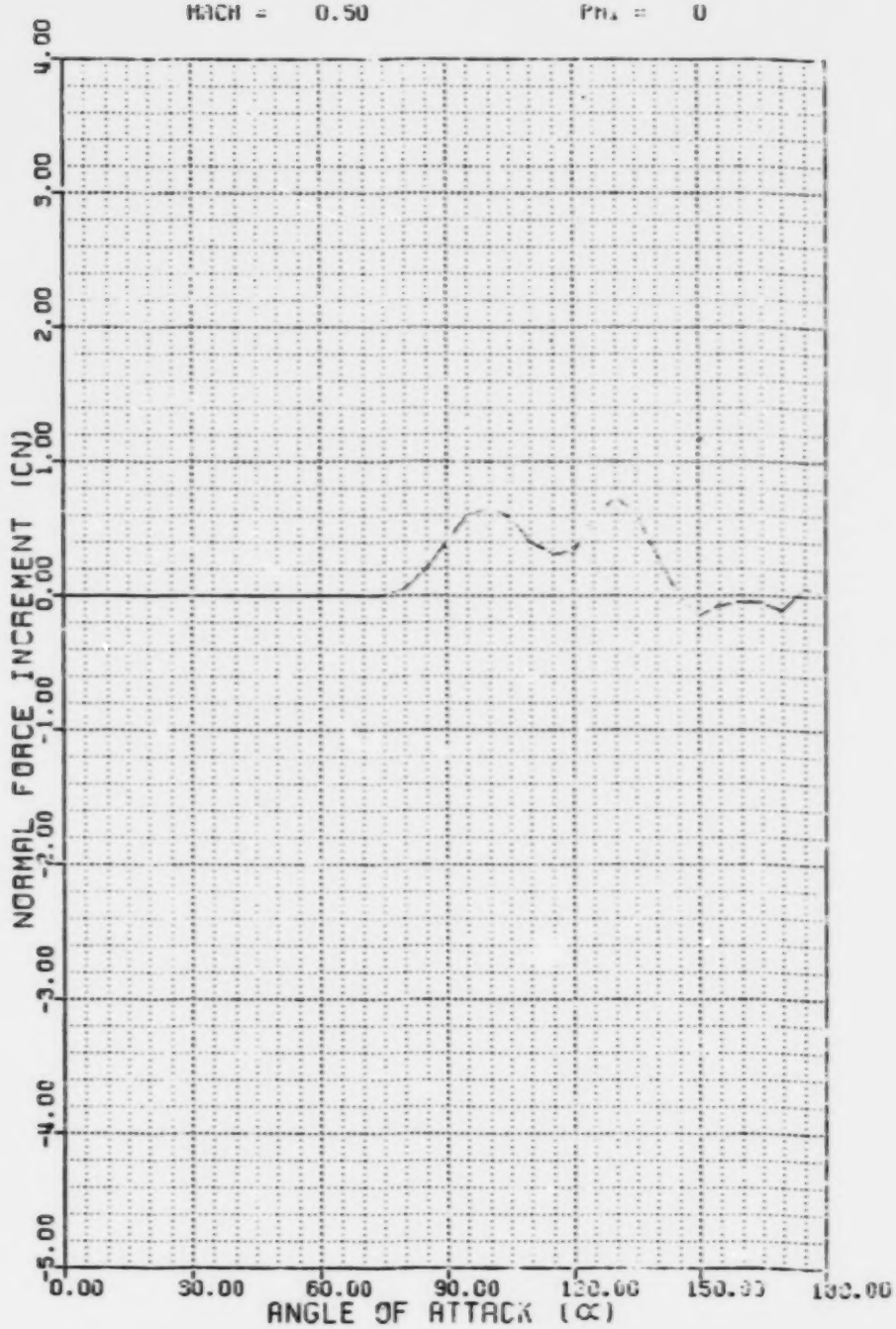

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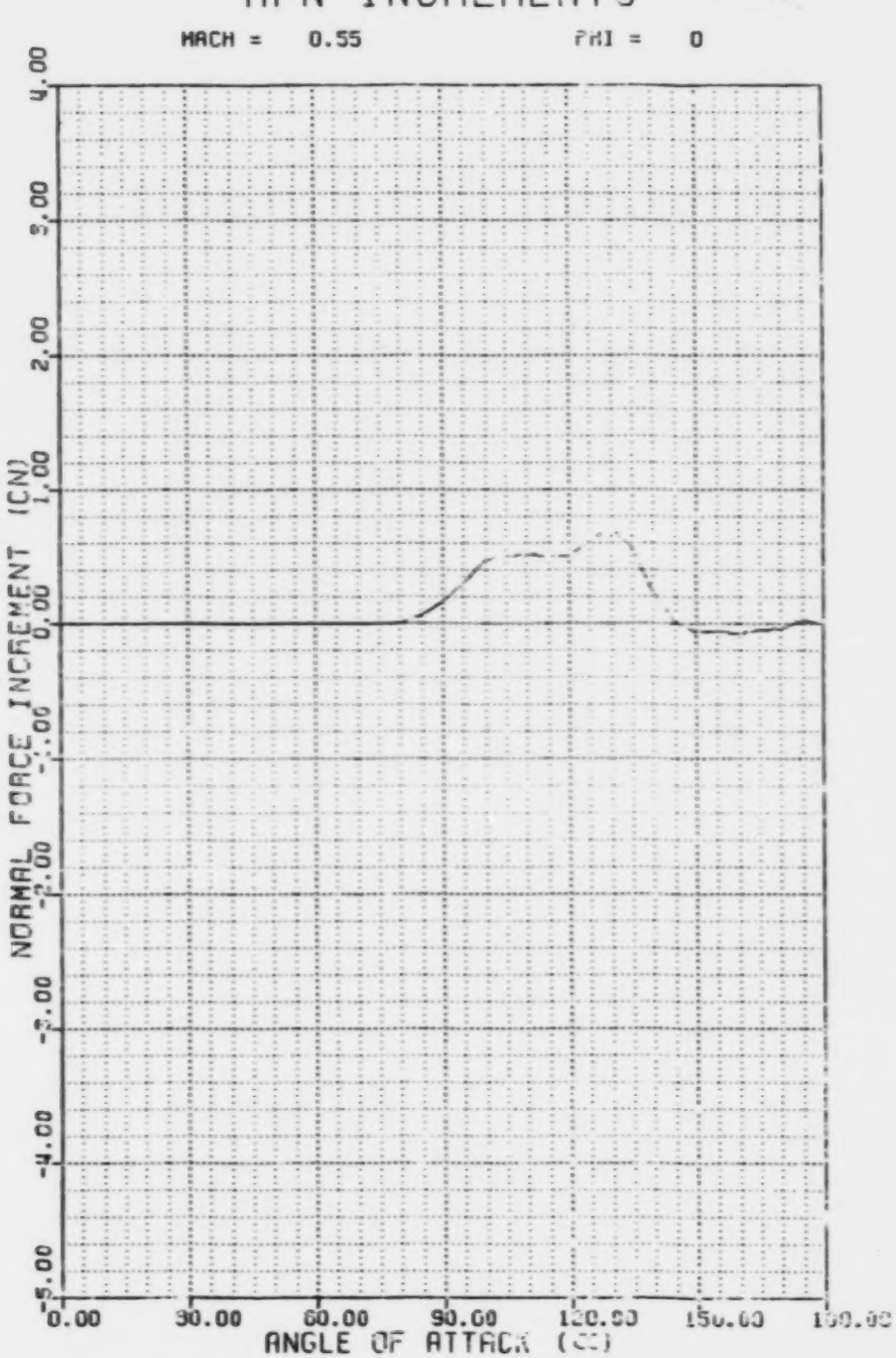

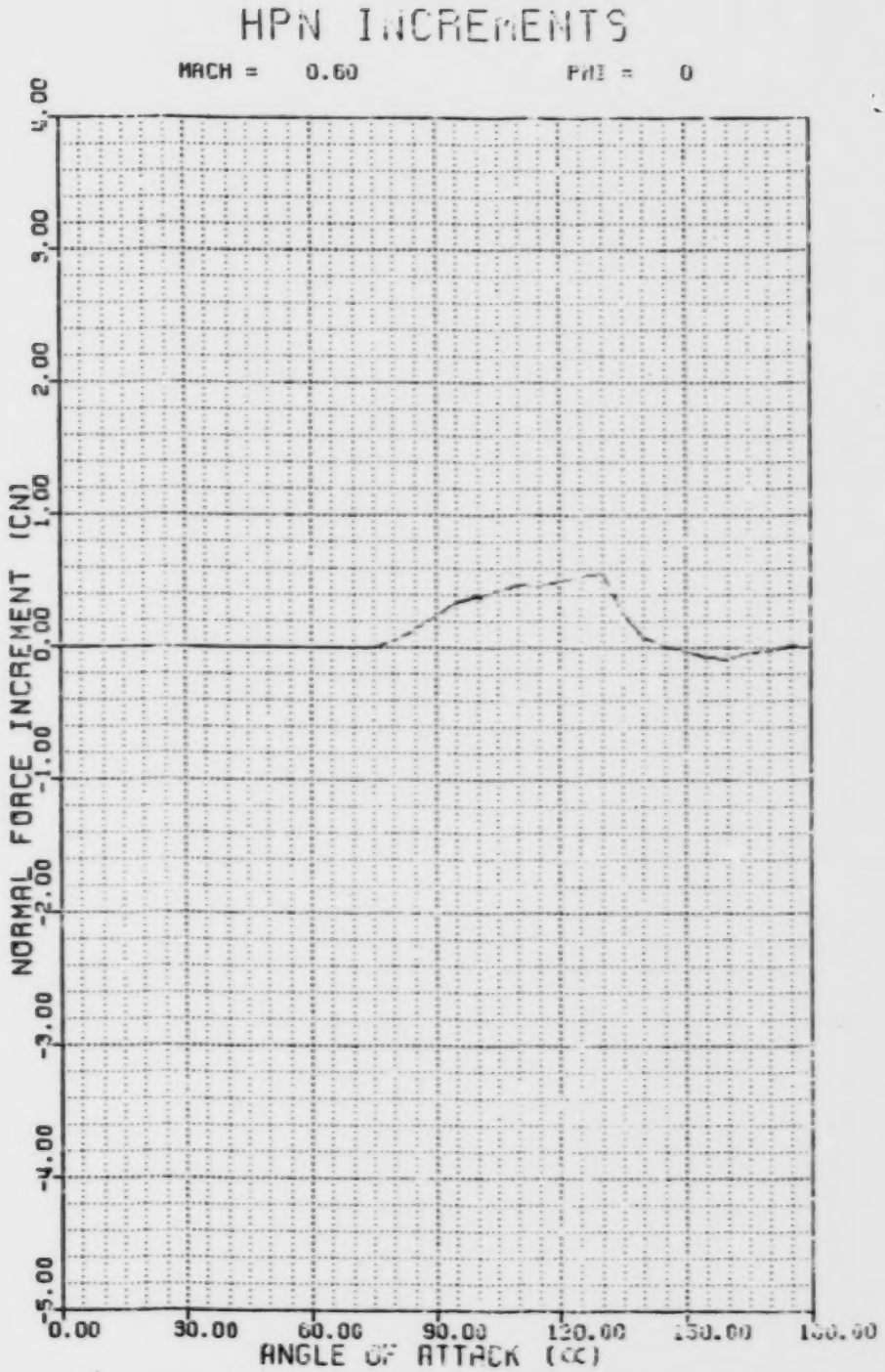
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1.00
0.00
-1.00
-2.00
-3.00
-4.00
-5.00
0.00
30.00
60.00
90.00
120.00
150.00
180.00
ANGLE OF ATTACK (α)

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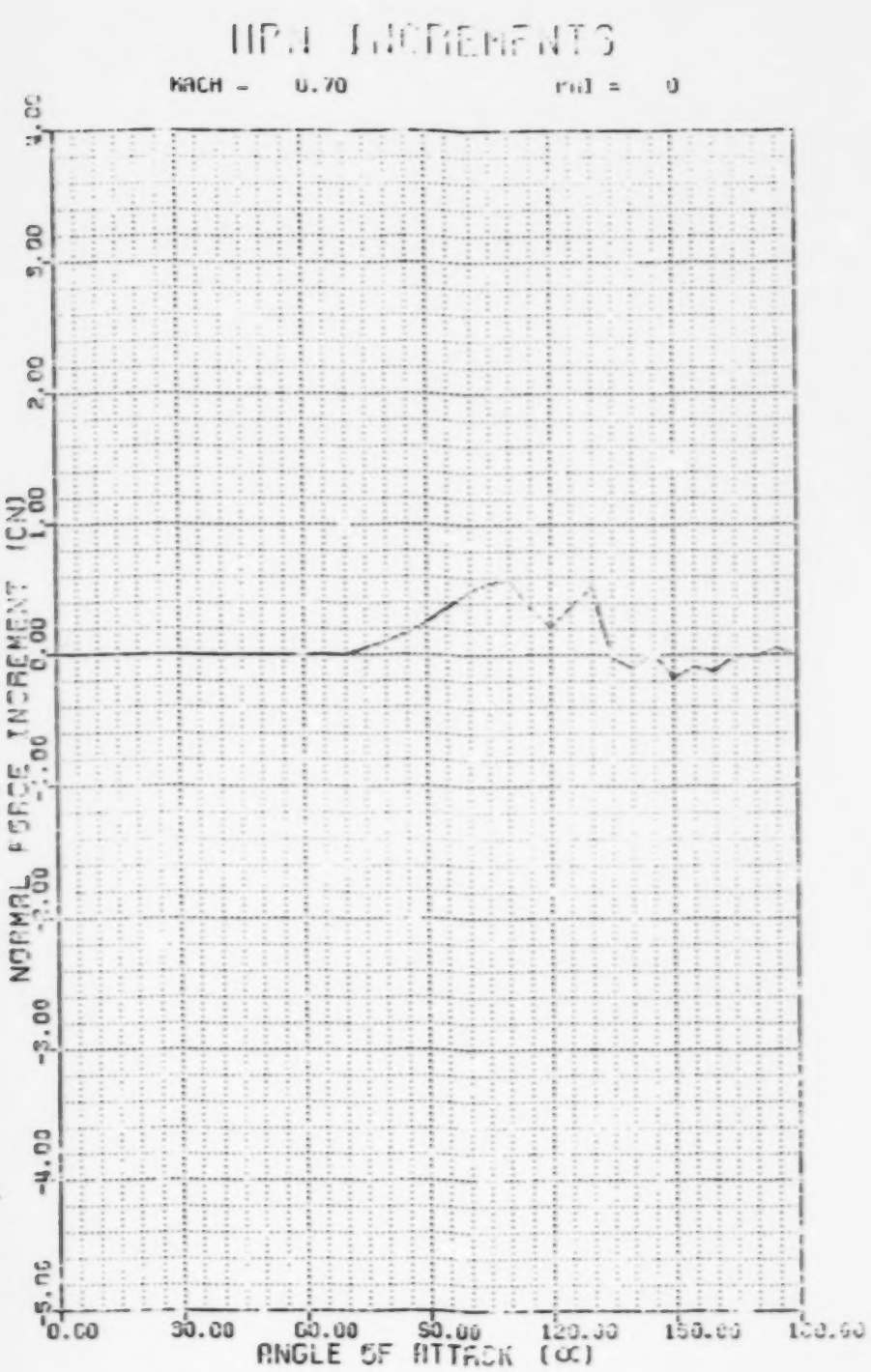

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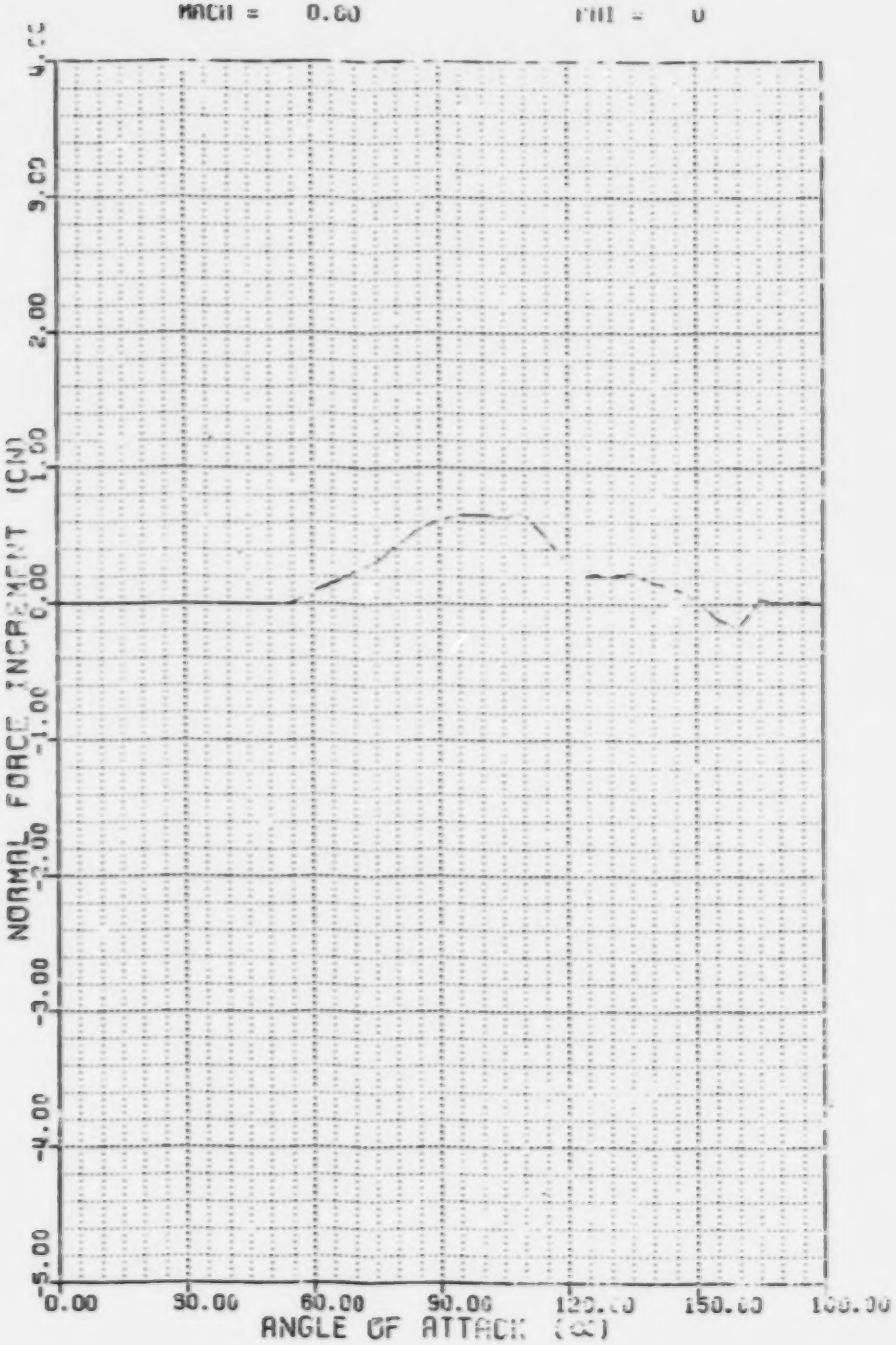

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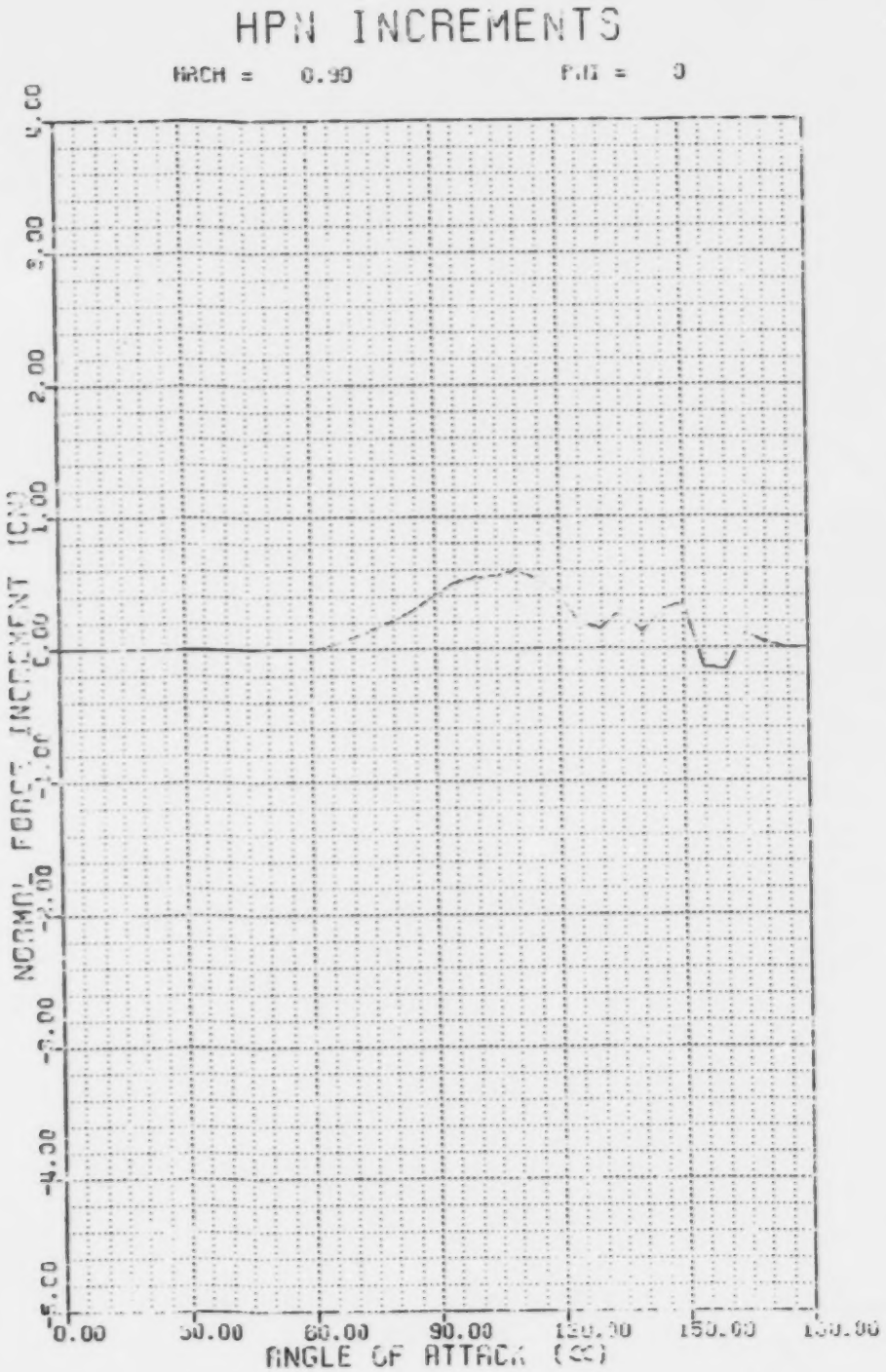

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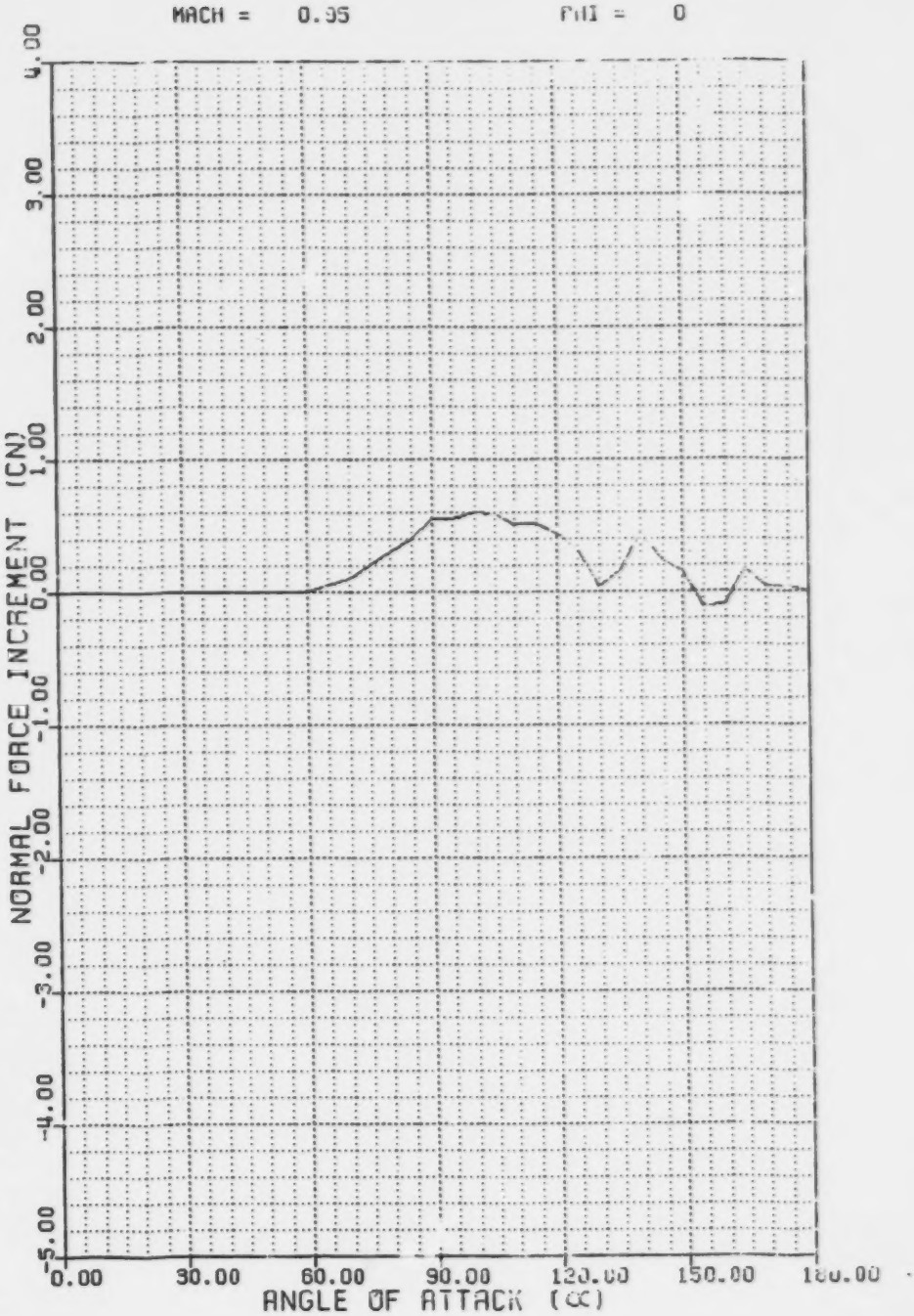

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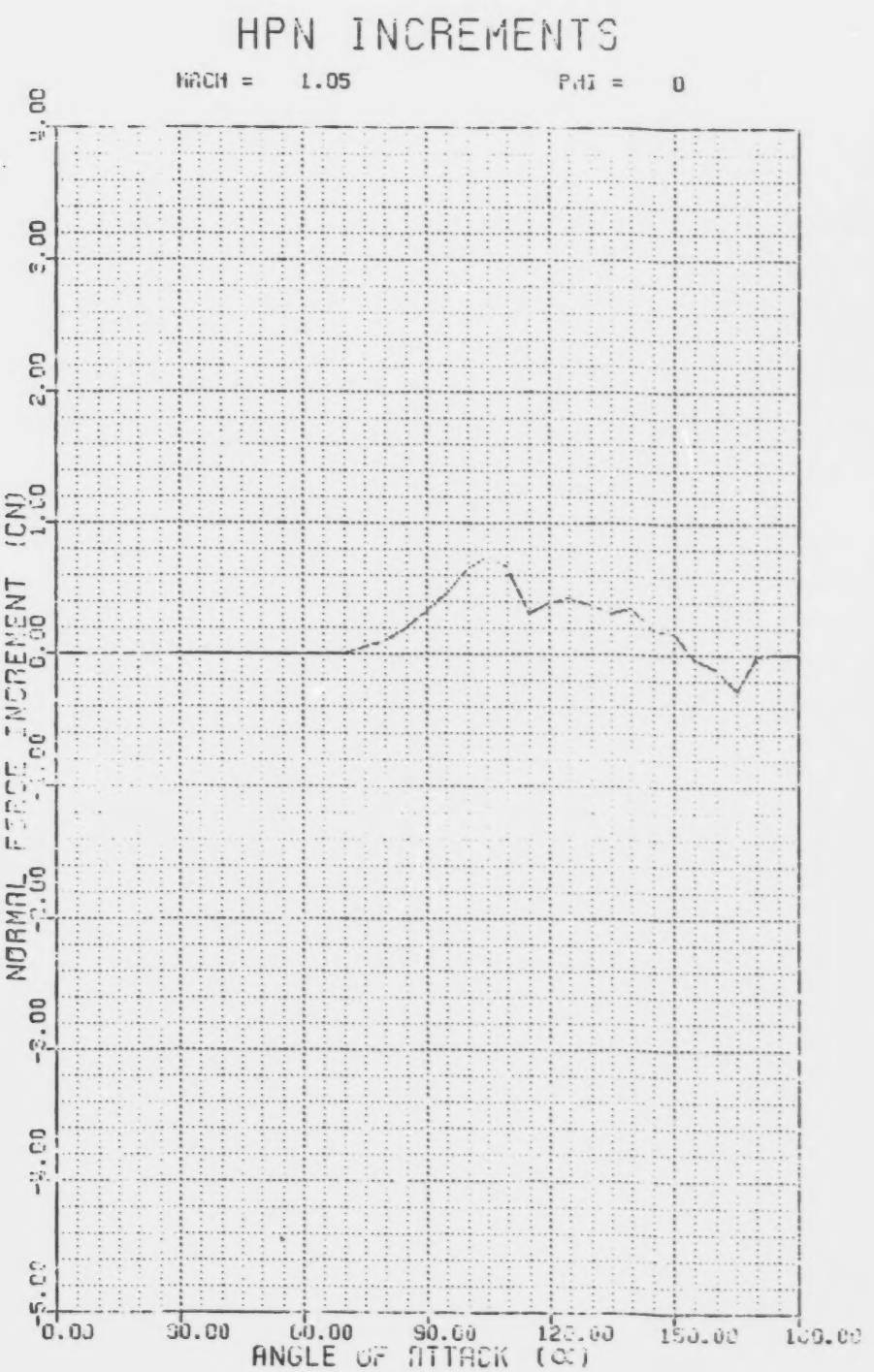

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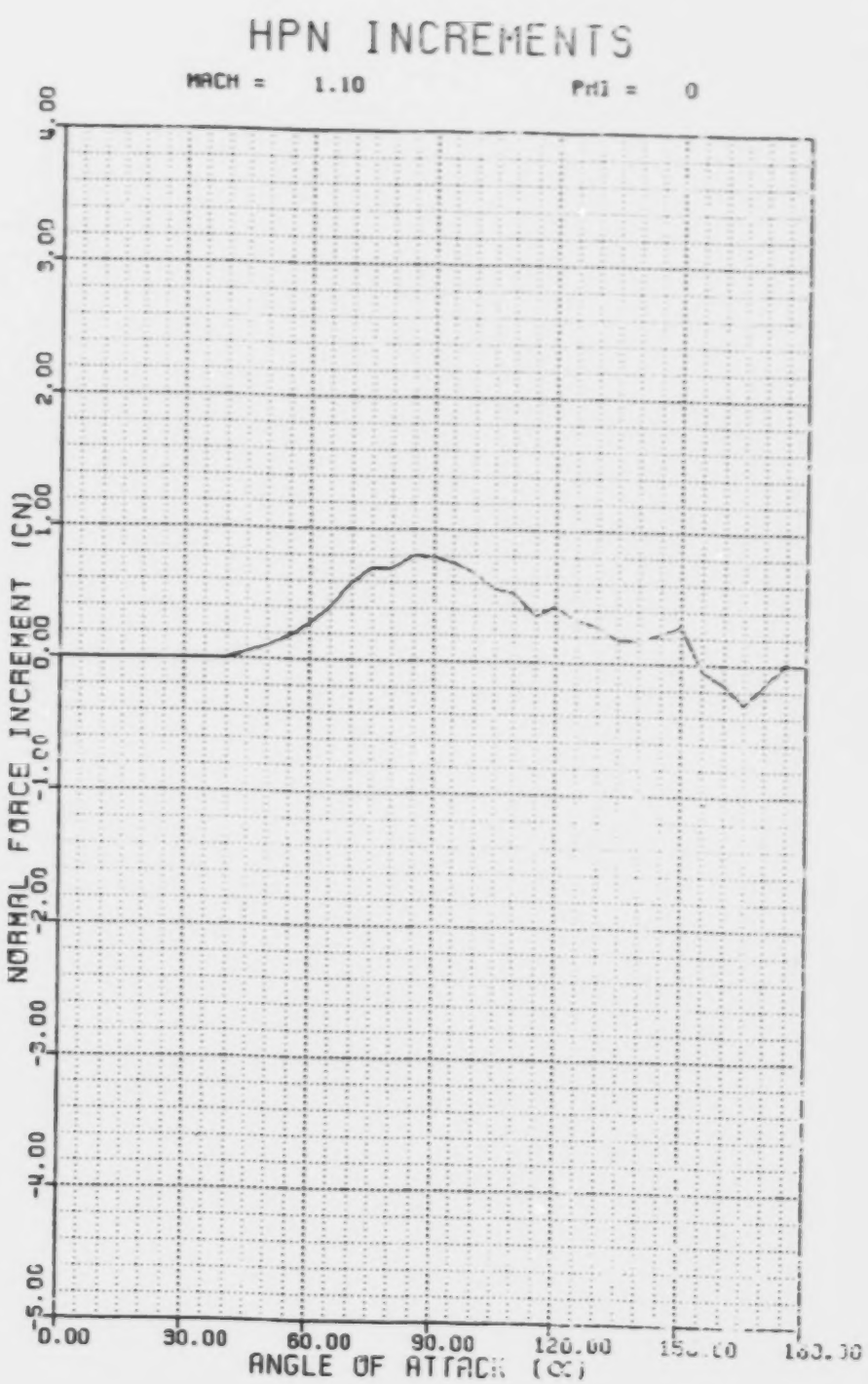

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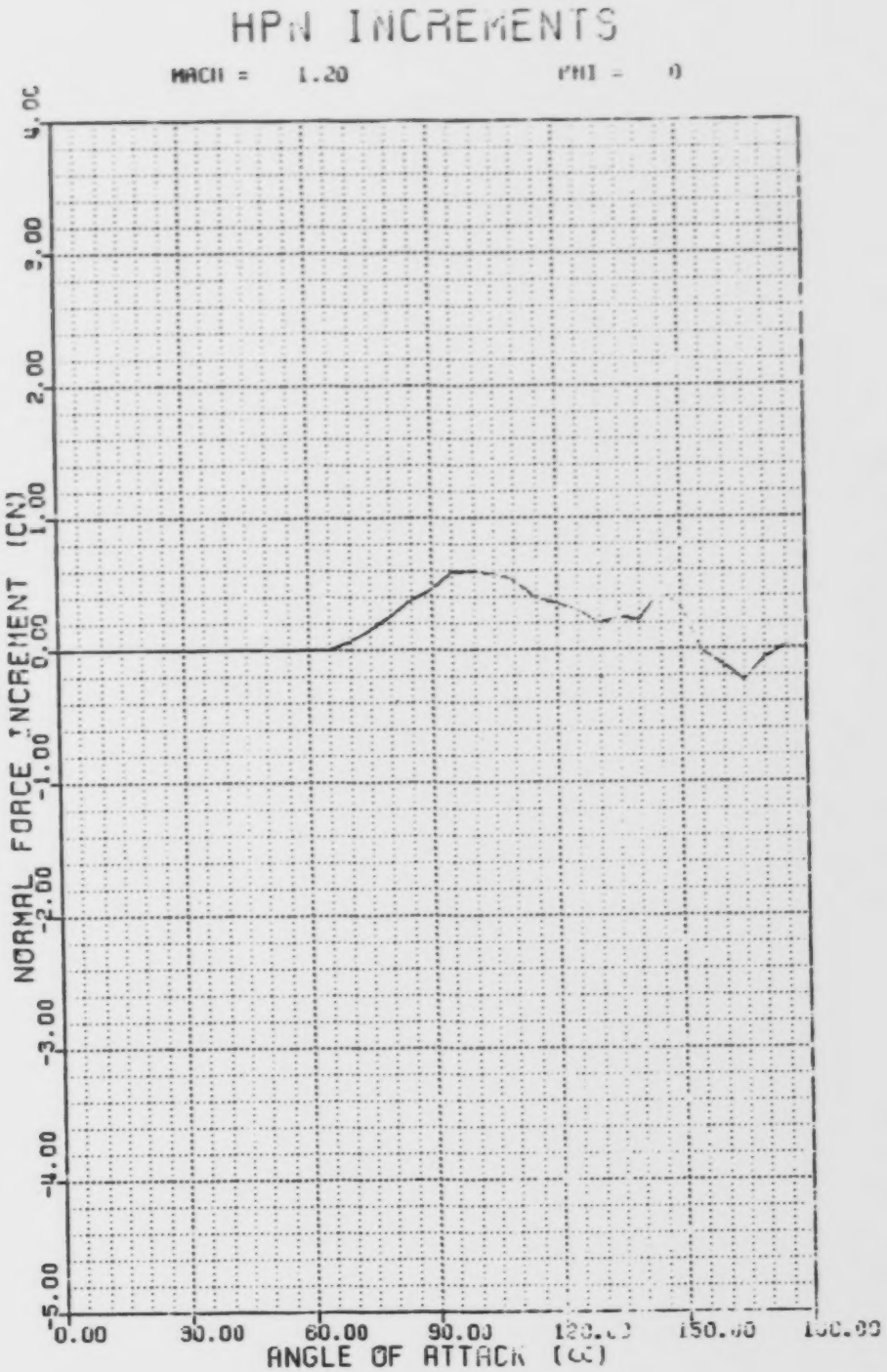

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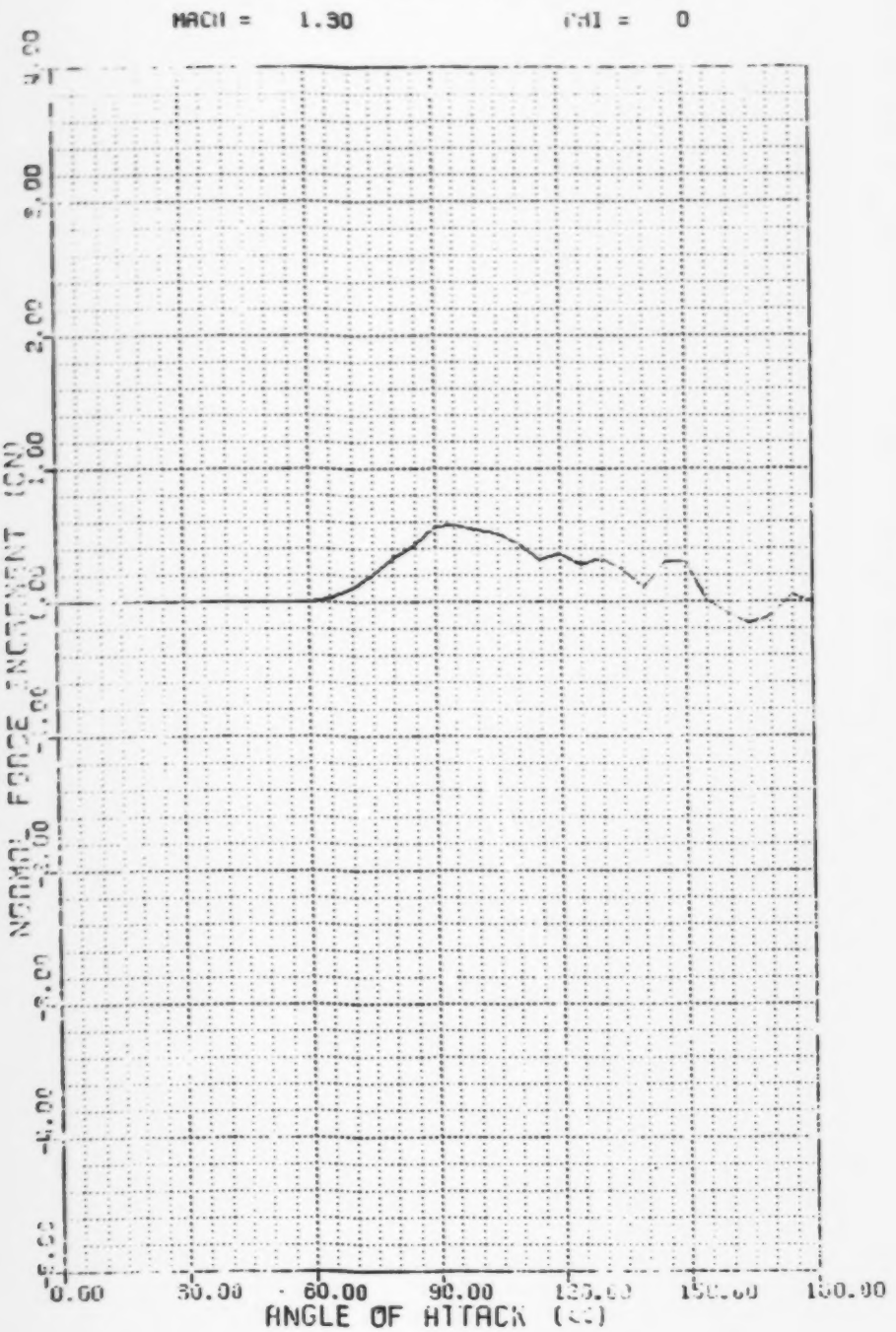

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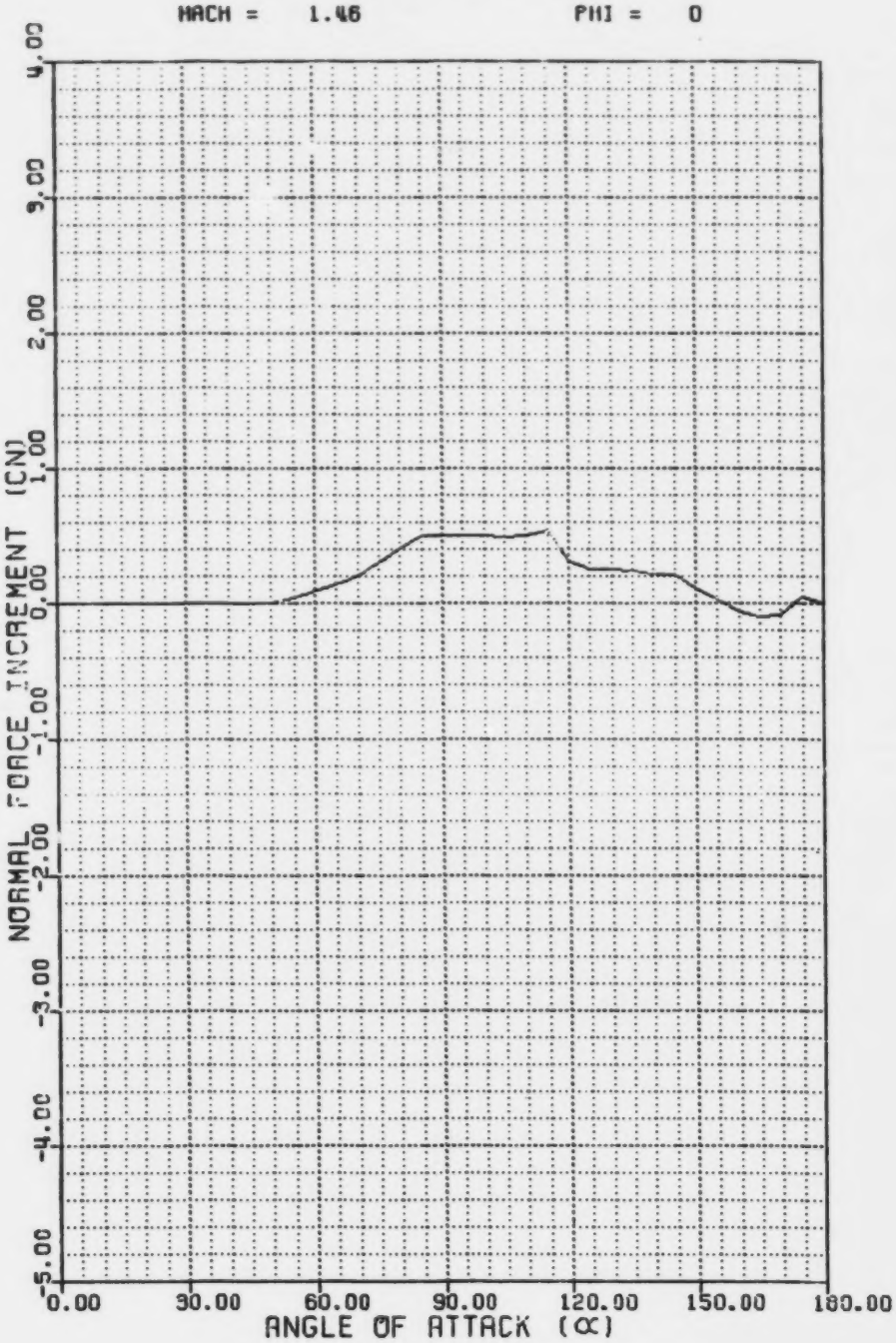

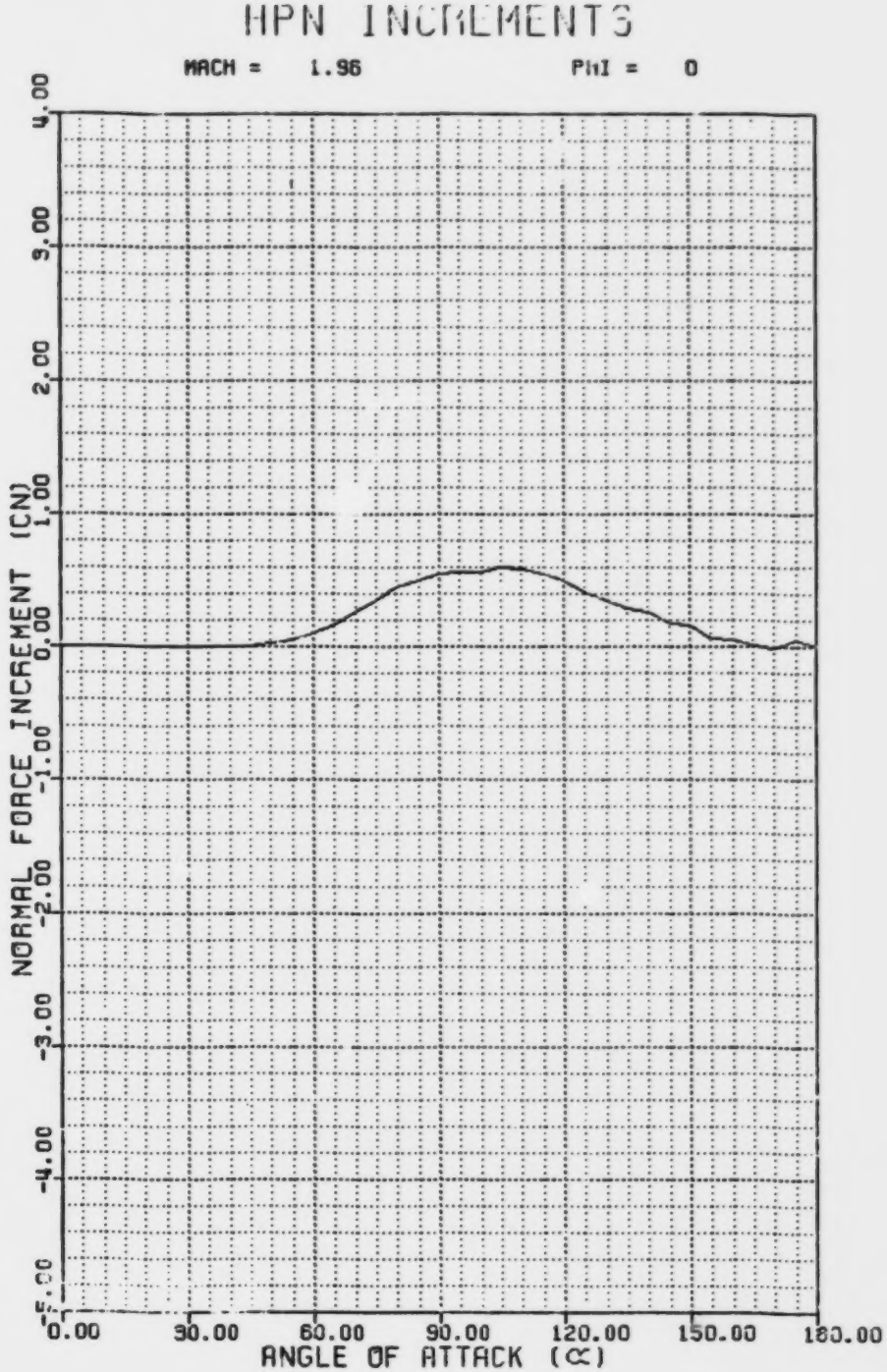
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-4.00
-5.00
0.00
30.00
60.00
90.00
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ANGLE OF ATTACK (α)

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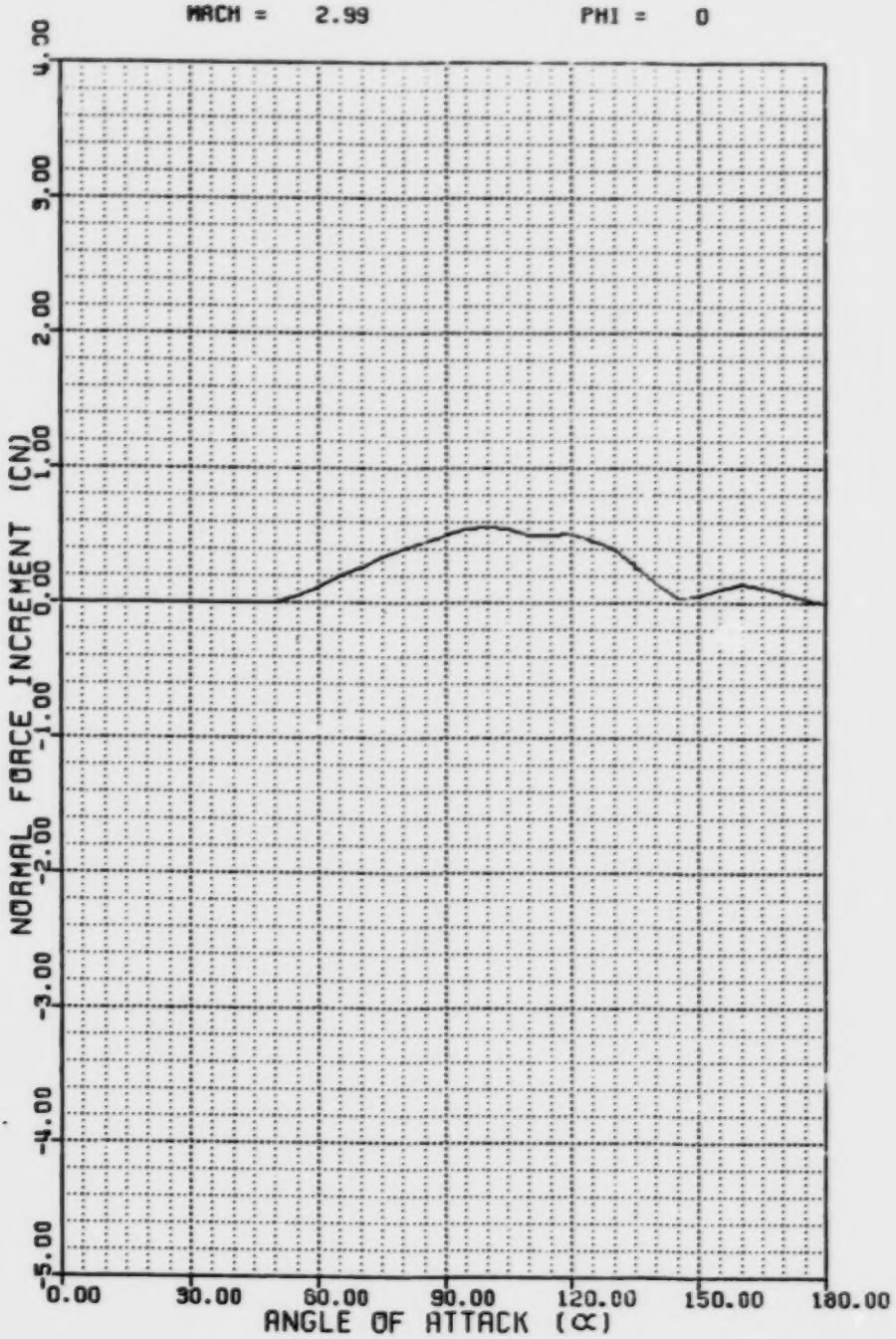

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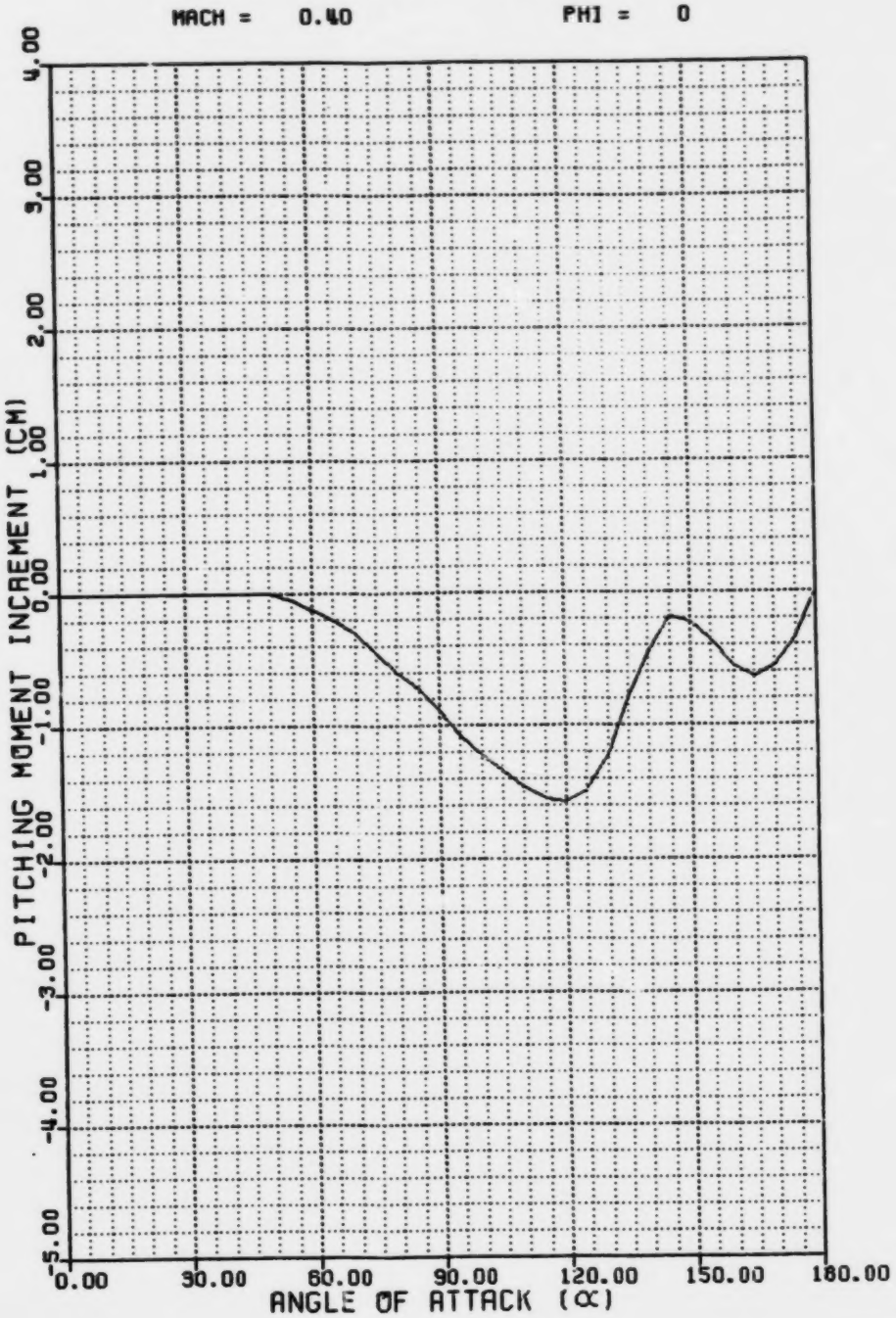

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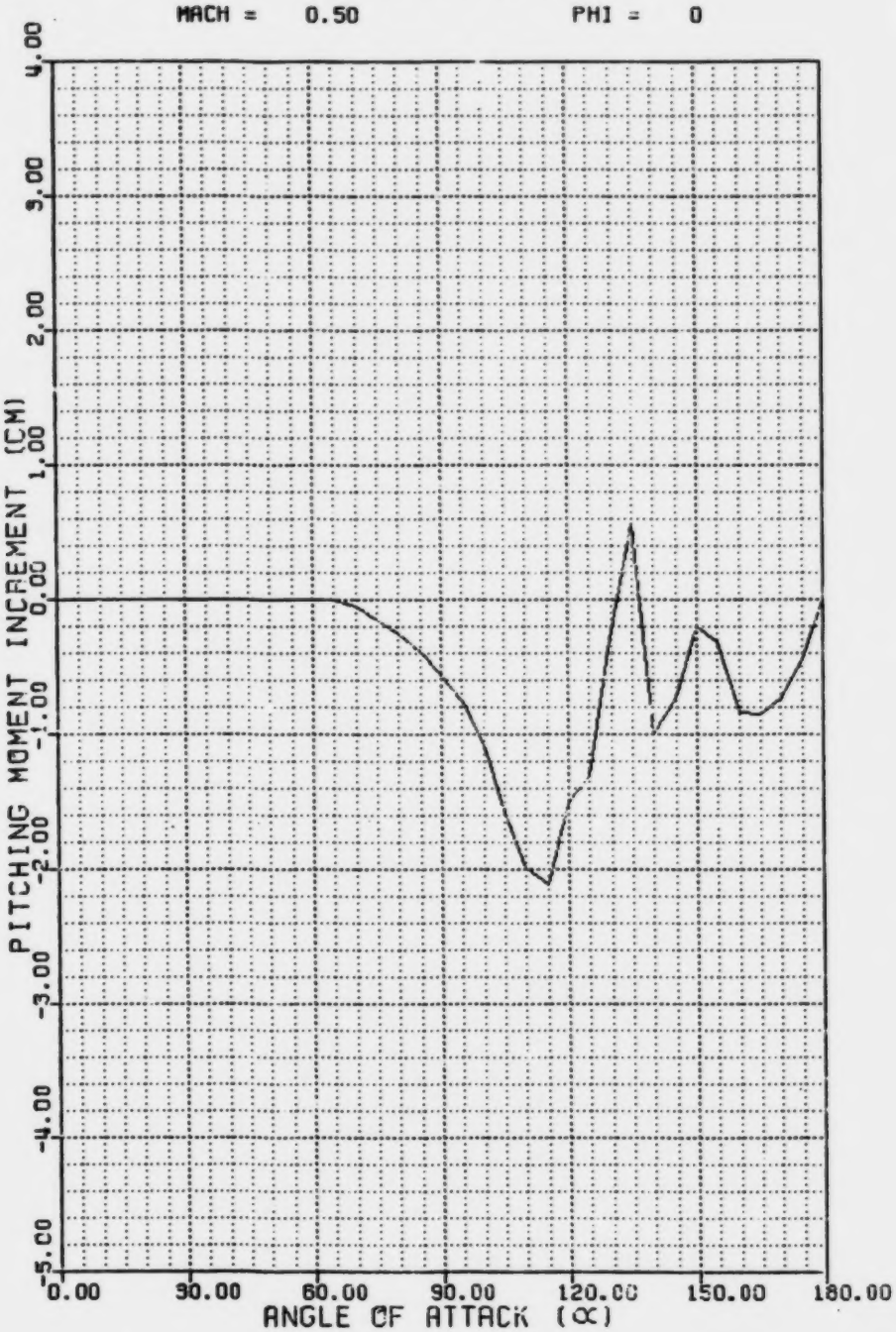

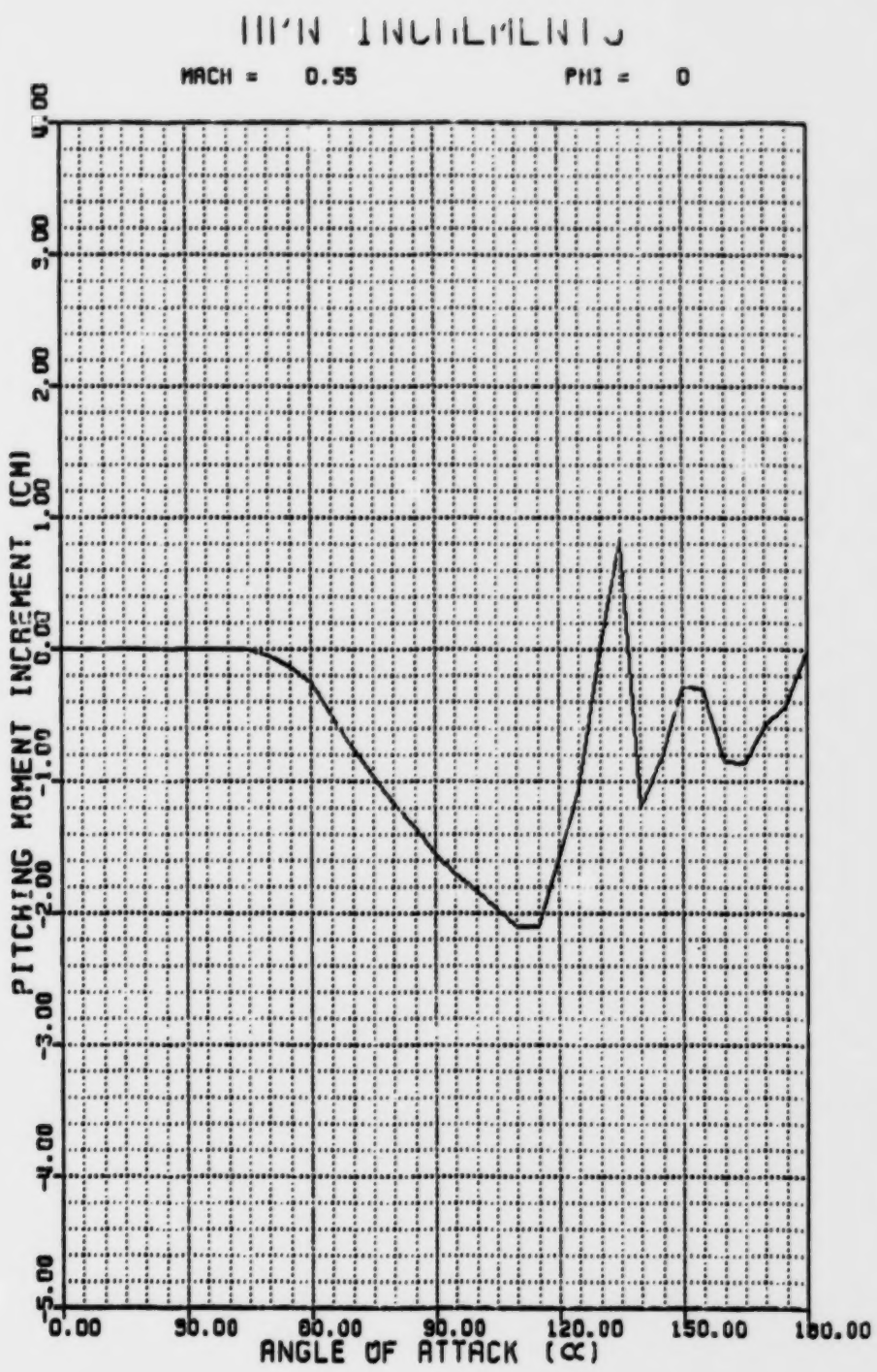
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150.00
180.00
ANGLE OF ATTACK (α)

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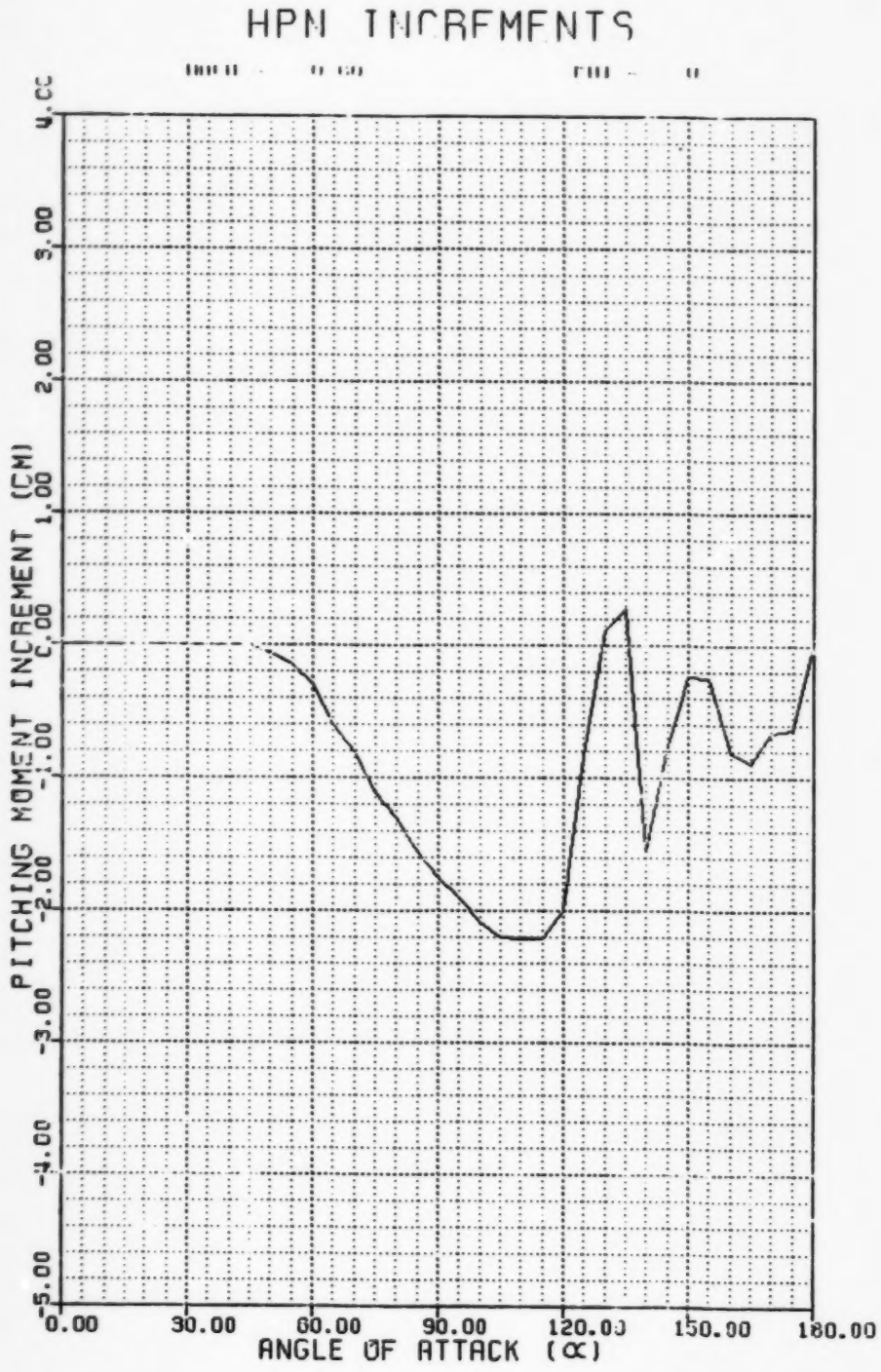

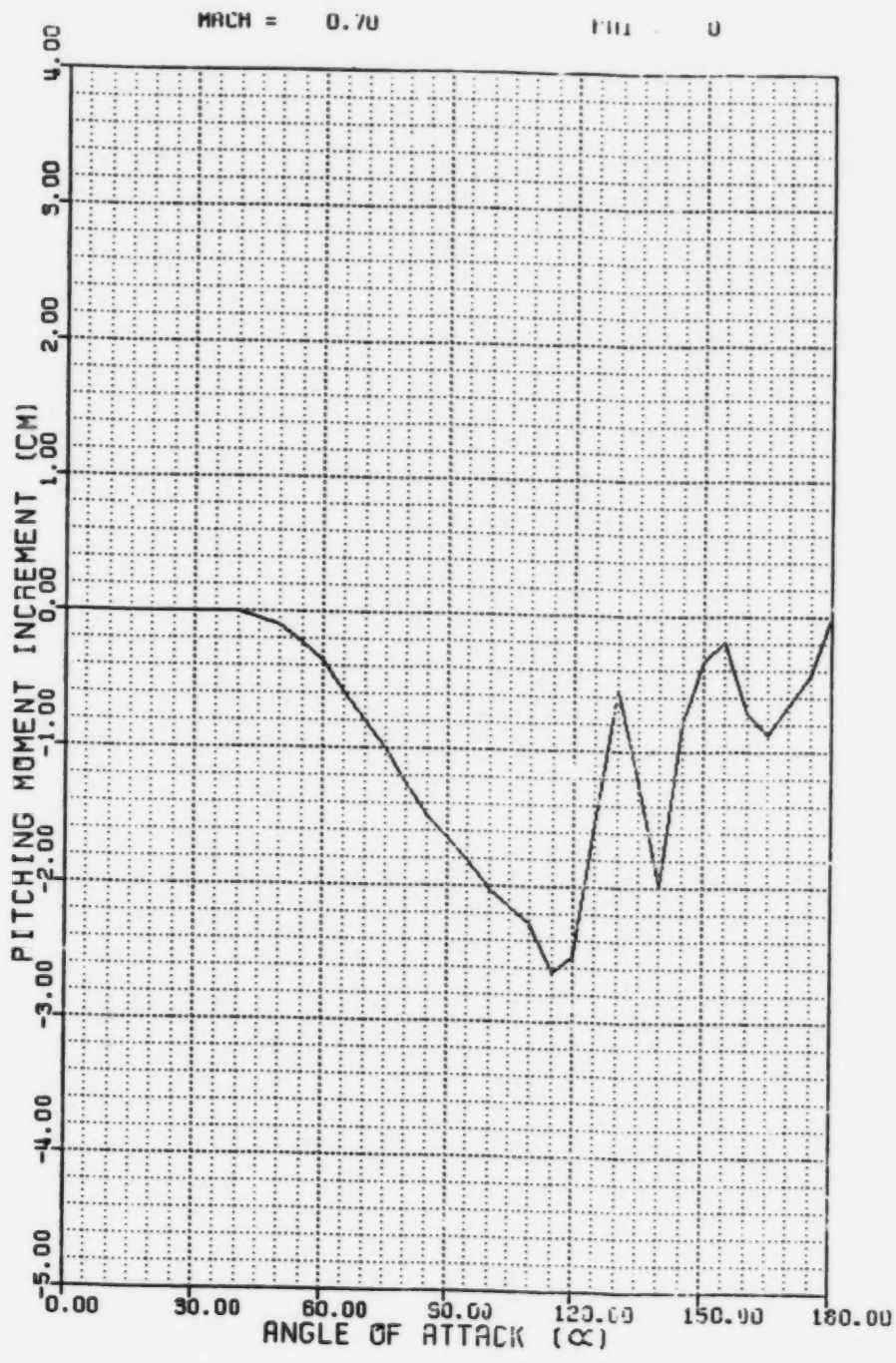
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90.00
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180.00
ANGLE OF ATTACK (α)

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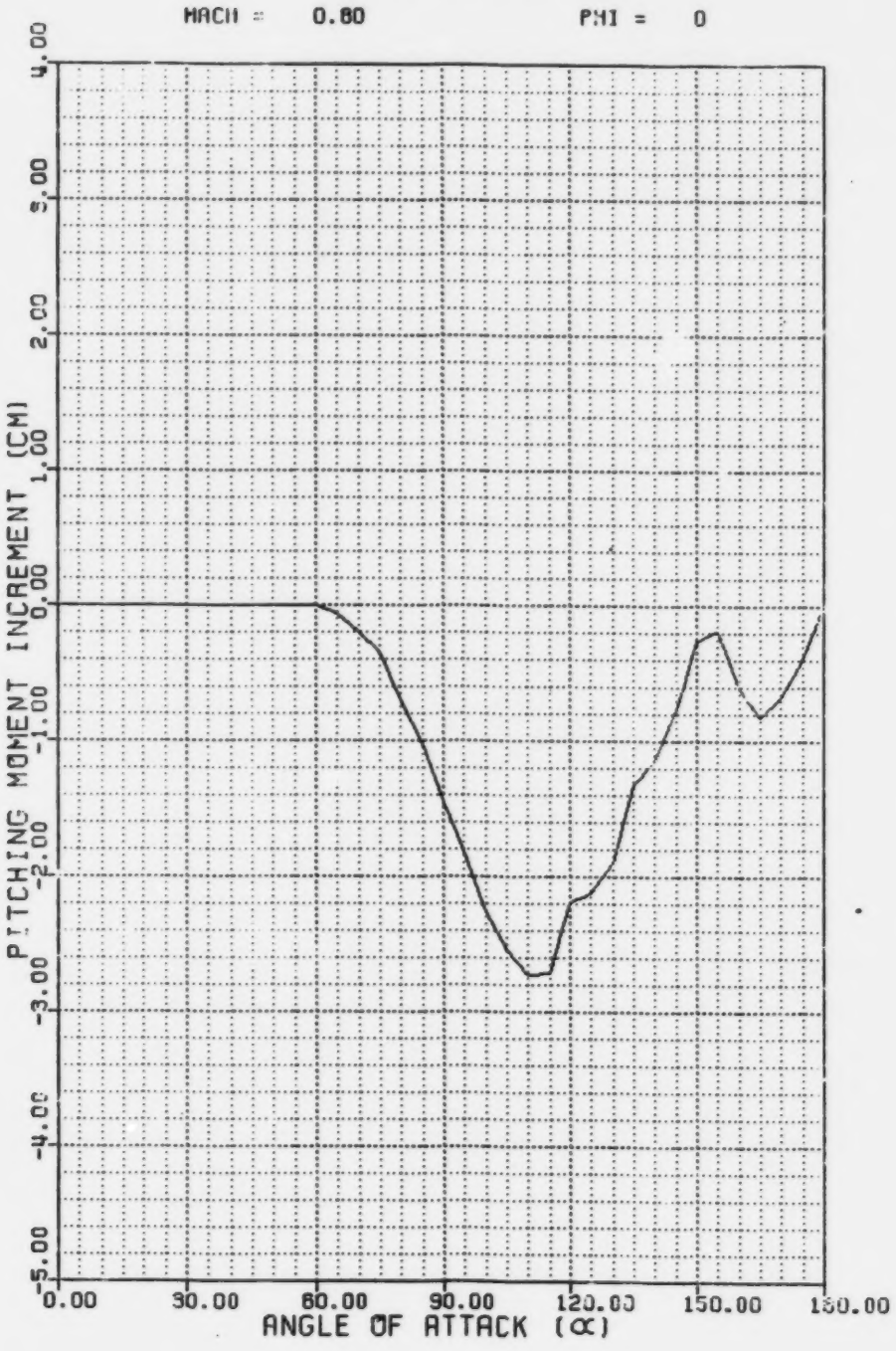

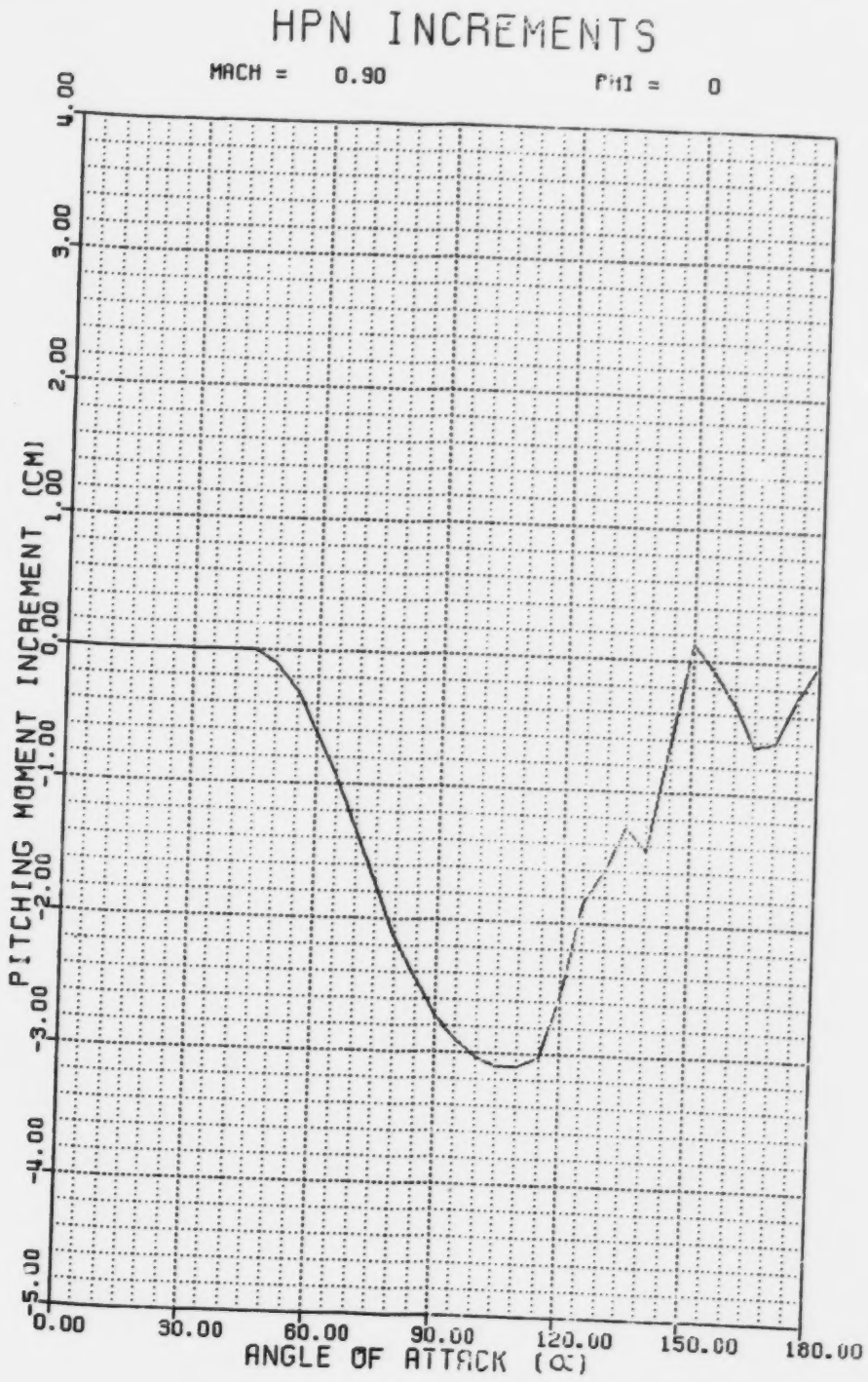
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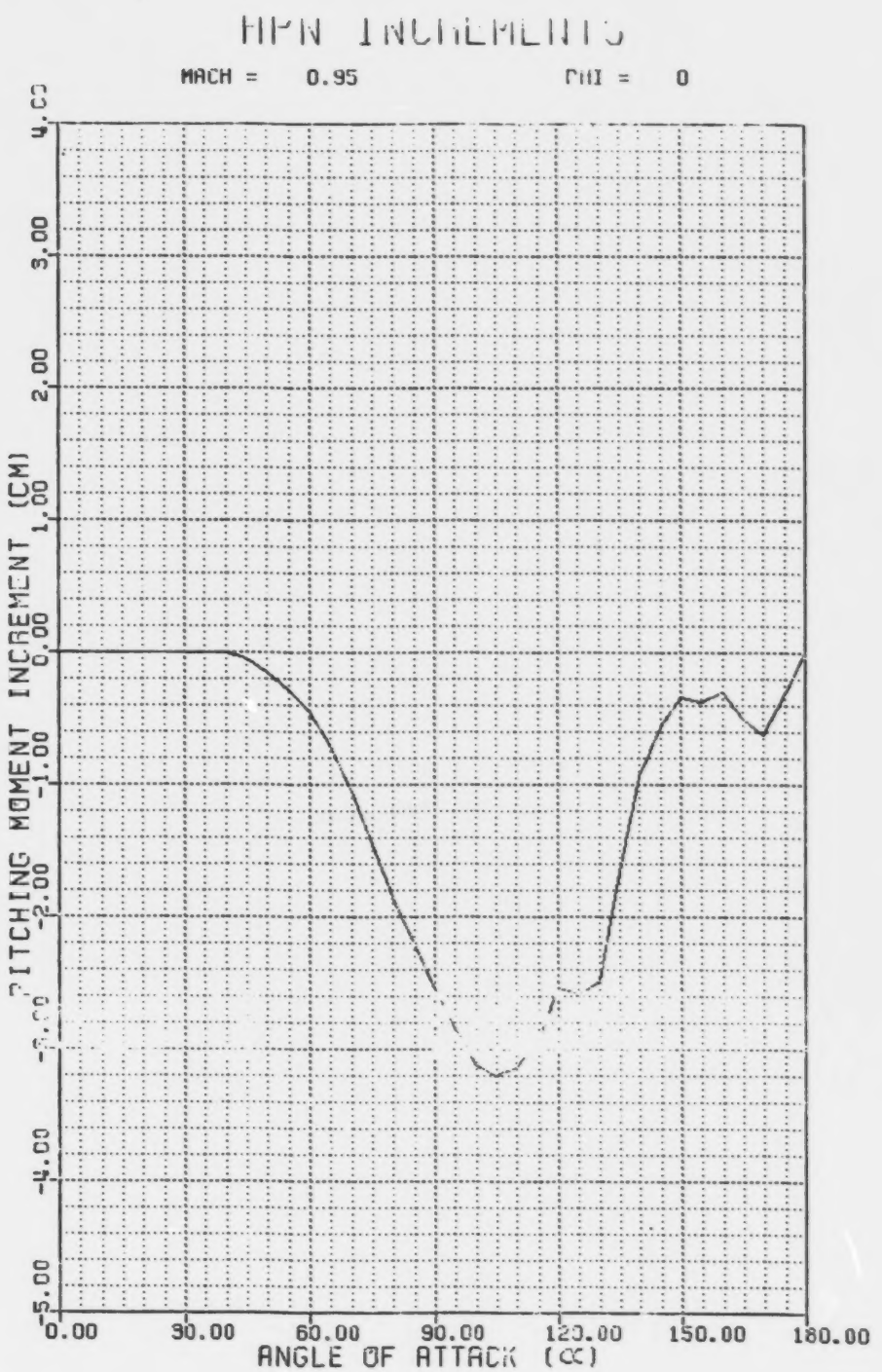
150.00
180.00
ANGLE OF ATTACK (α)

OF POOR QUALITY



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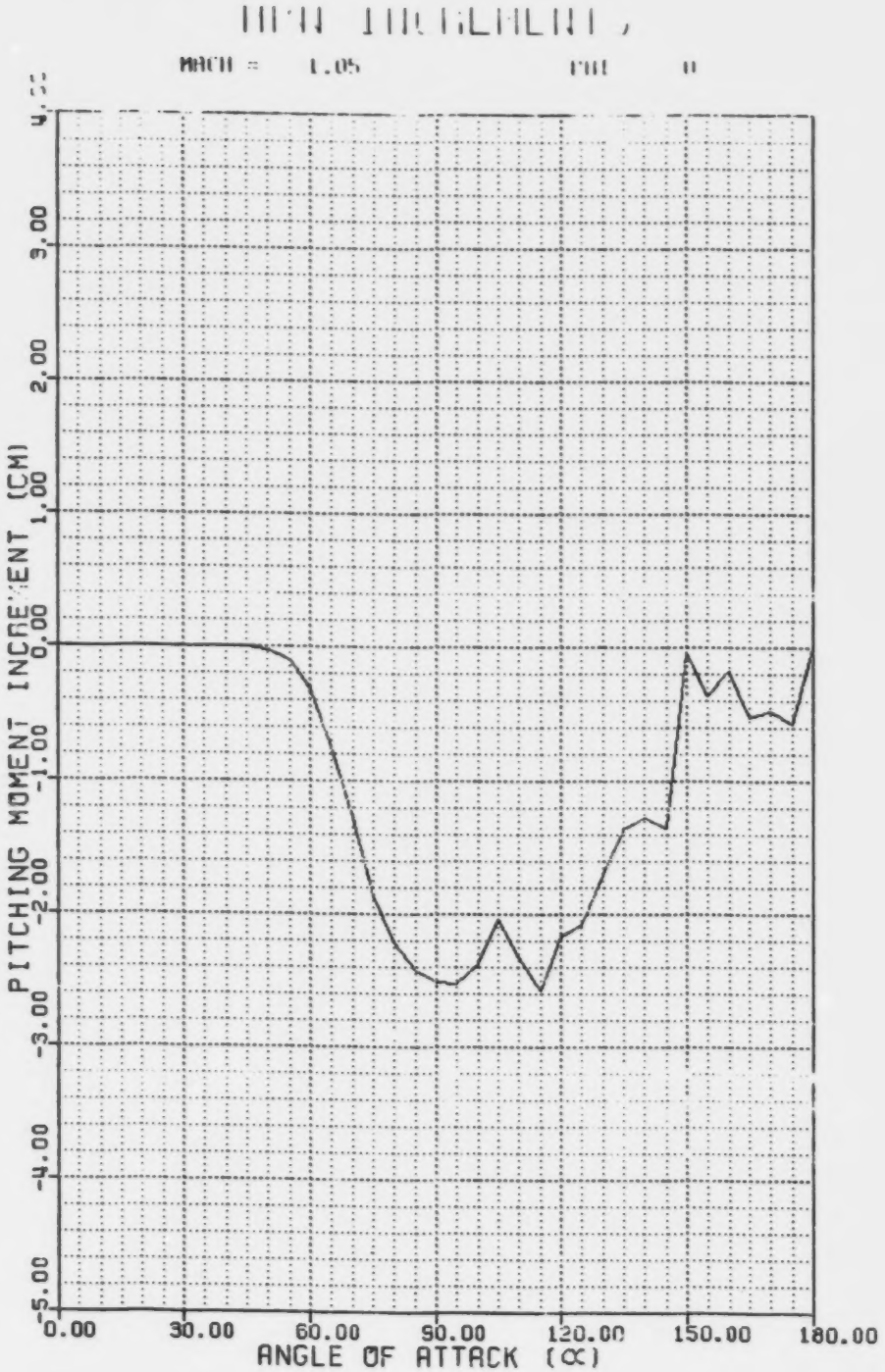

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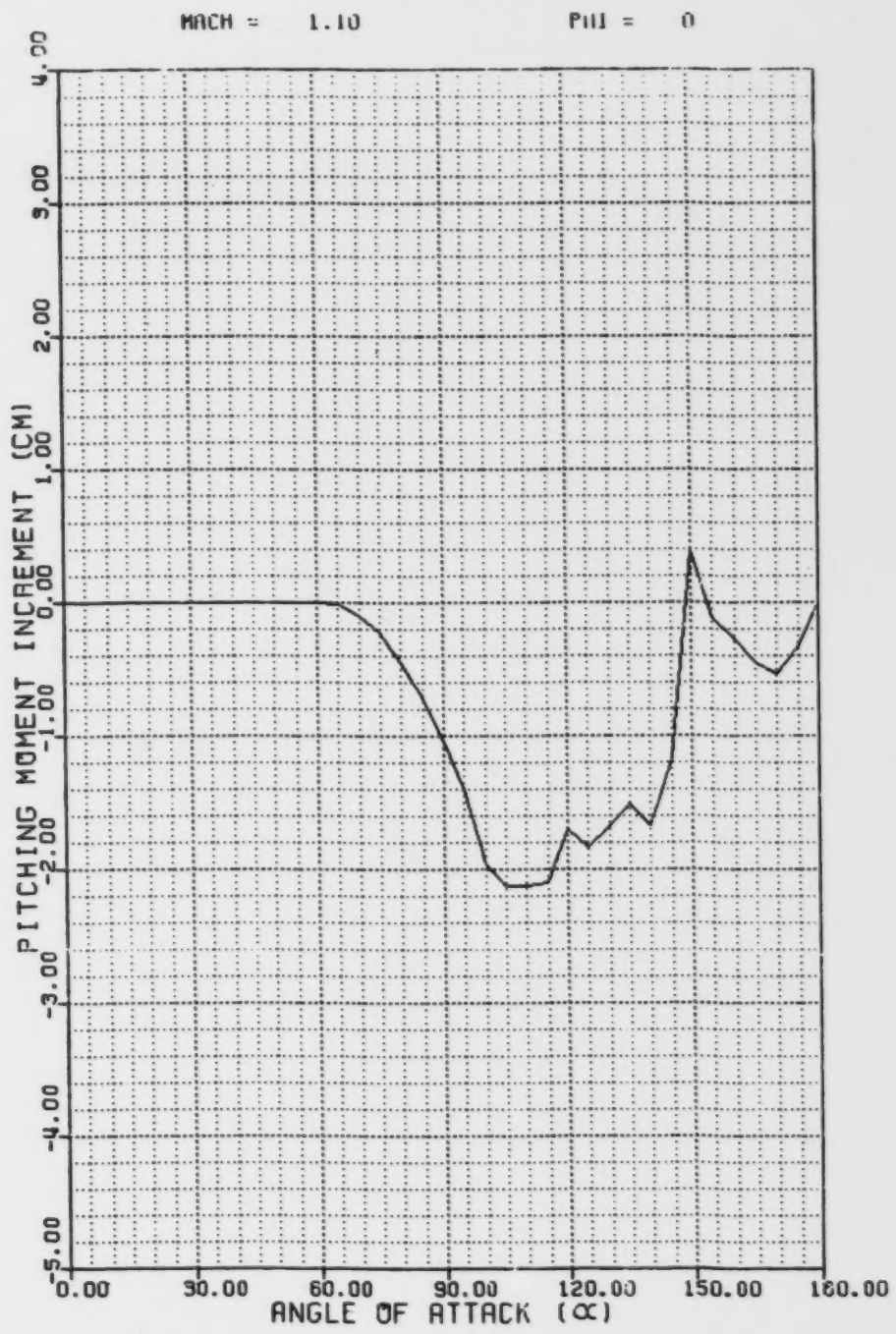

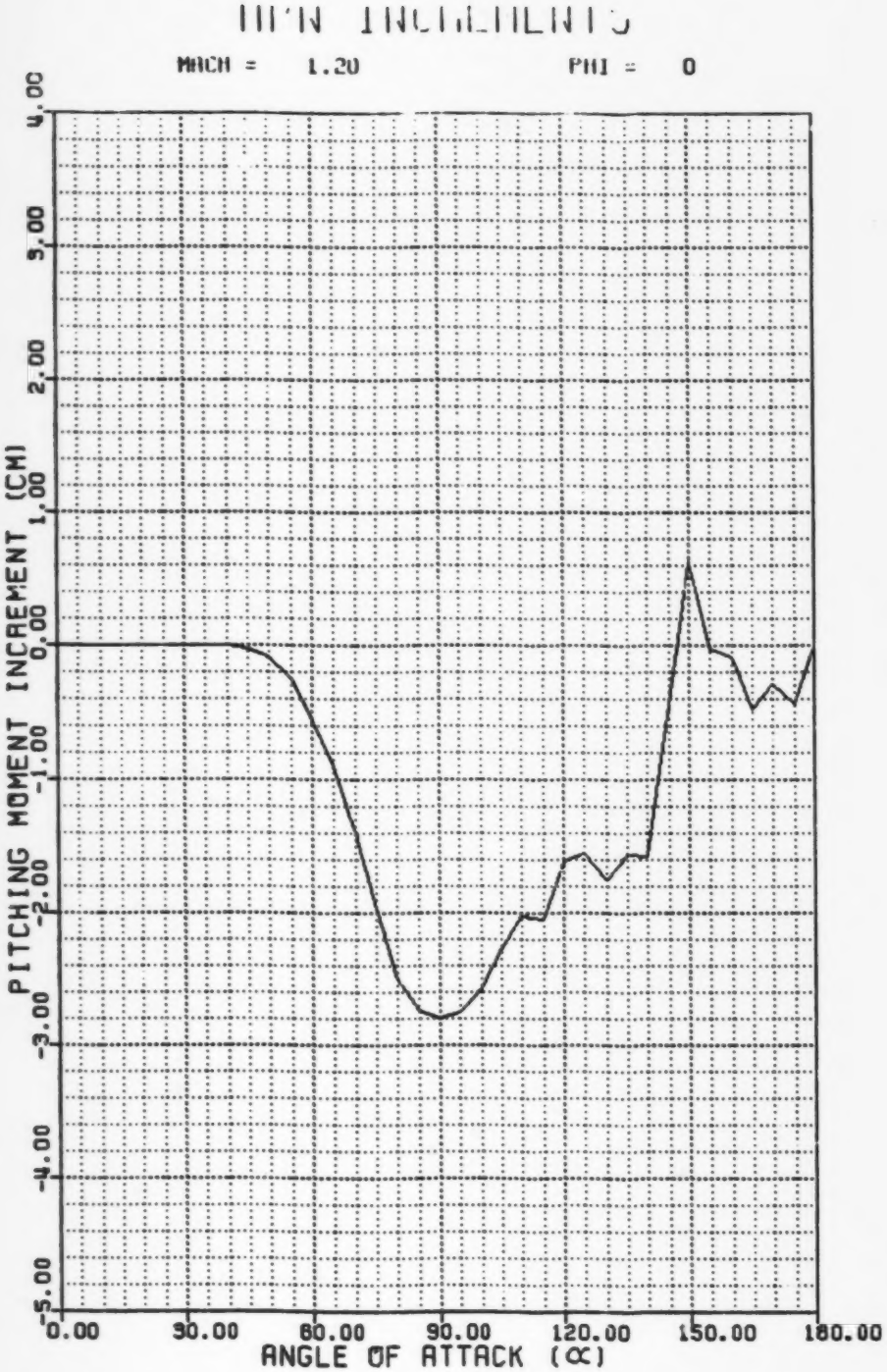
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-4.00
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90.00
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150.00
180.00
ANGLE OF ATTACK (α)

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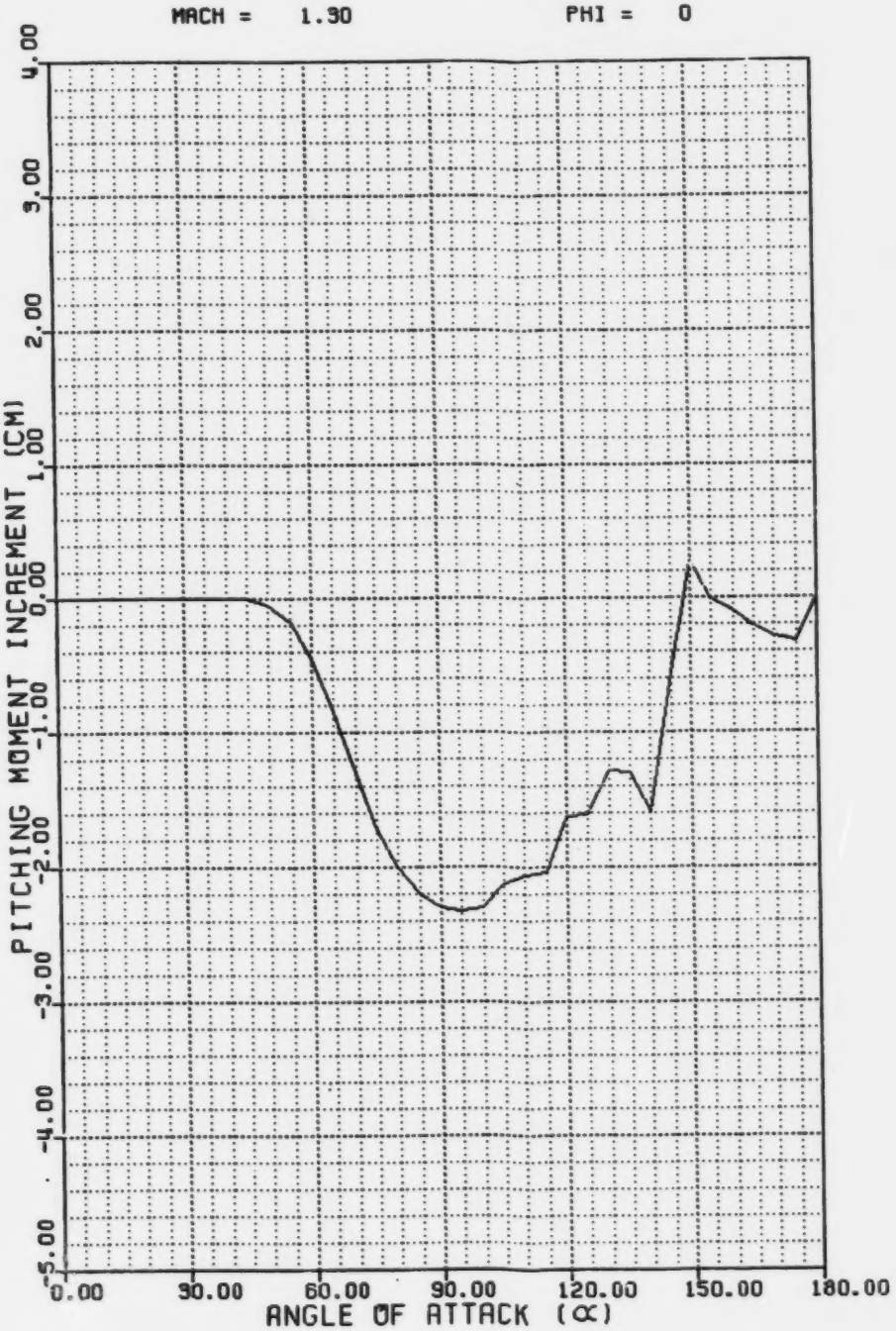

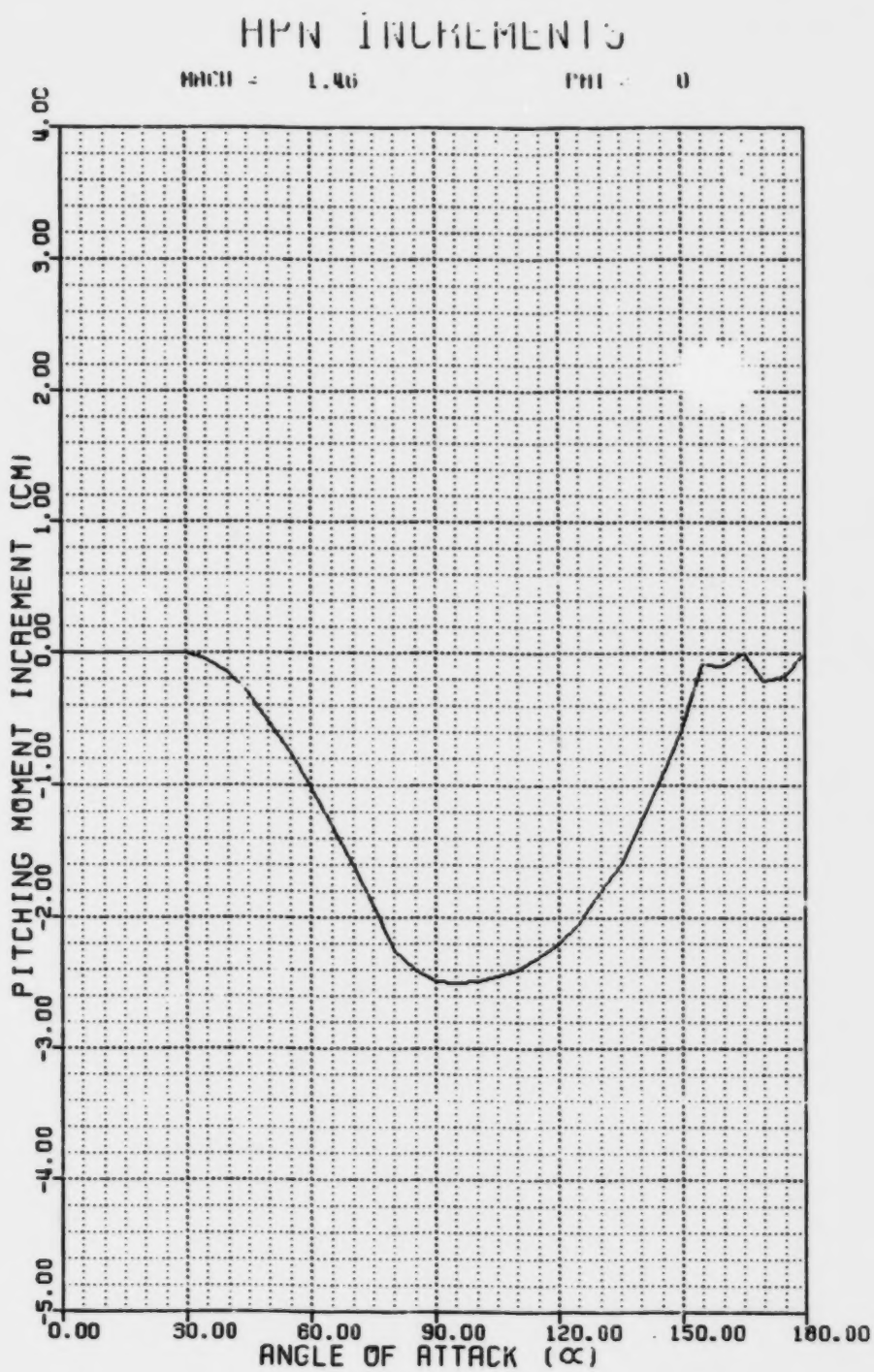
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60.00
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150.00
180.00
ANGLE OF ATTACK (α)

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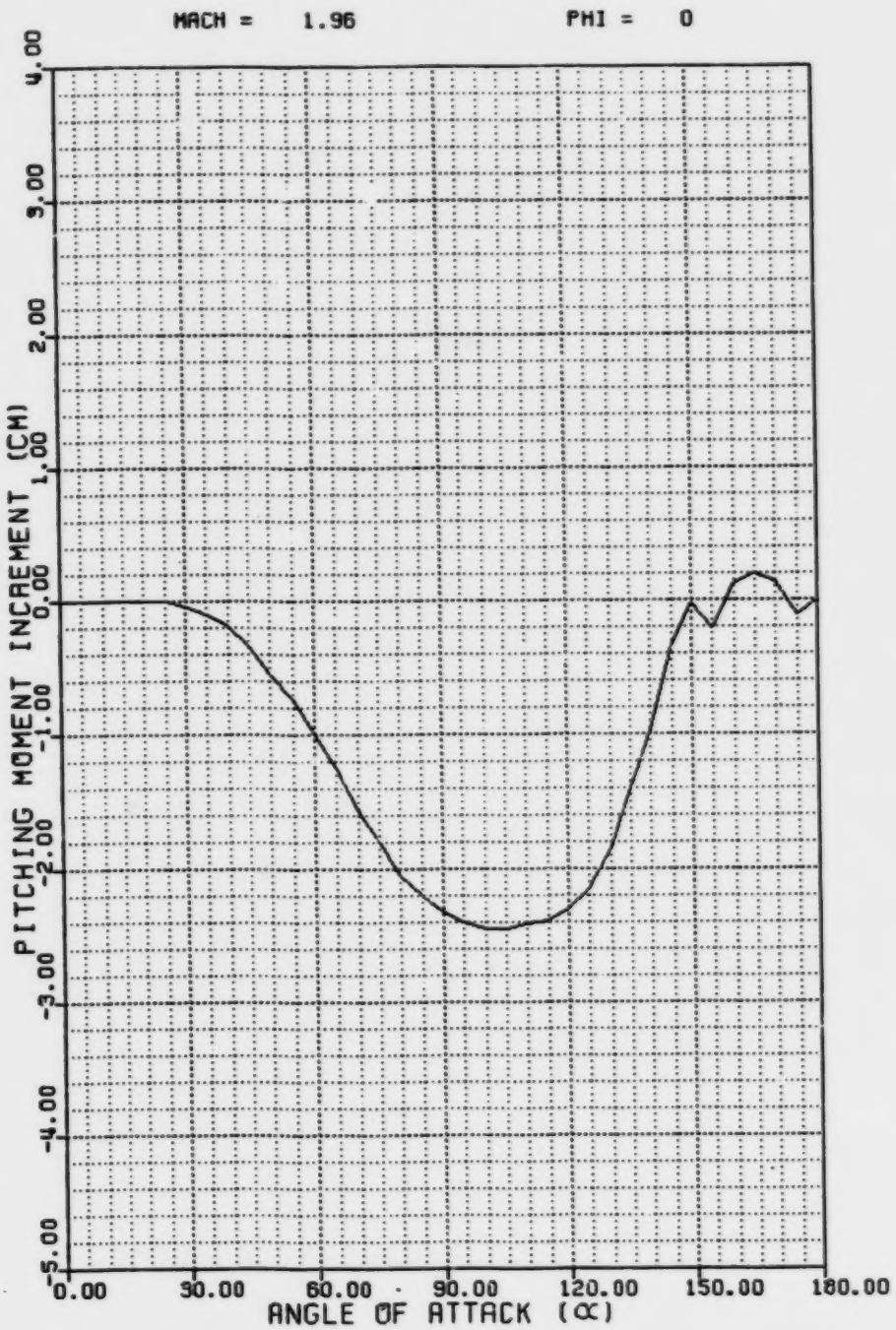

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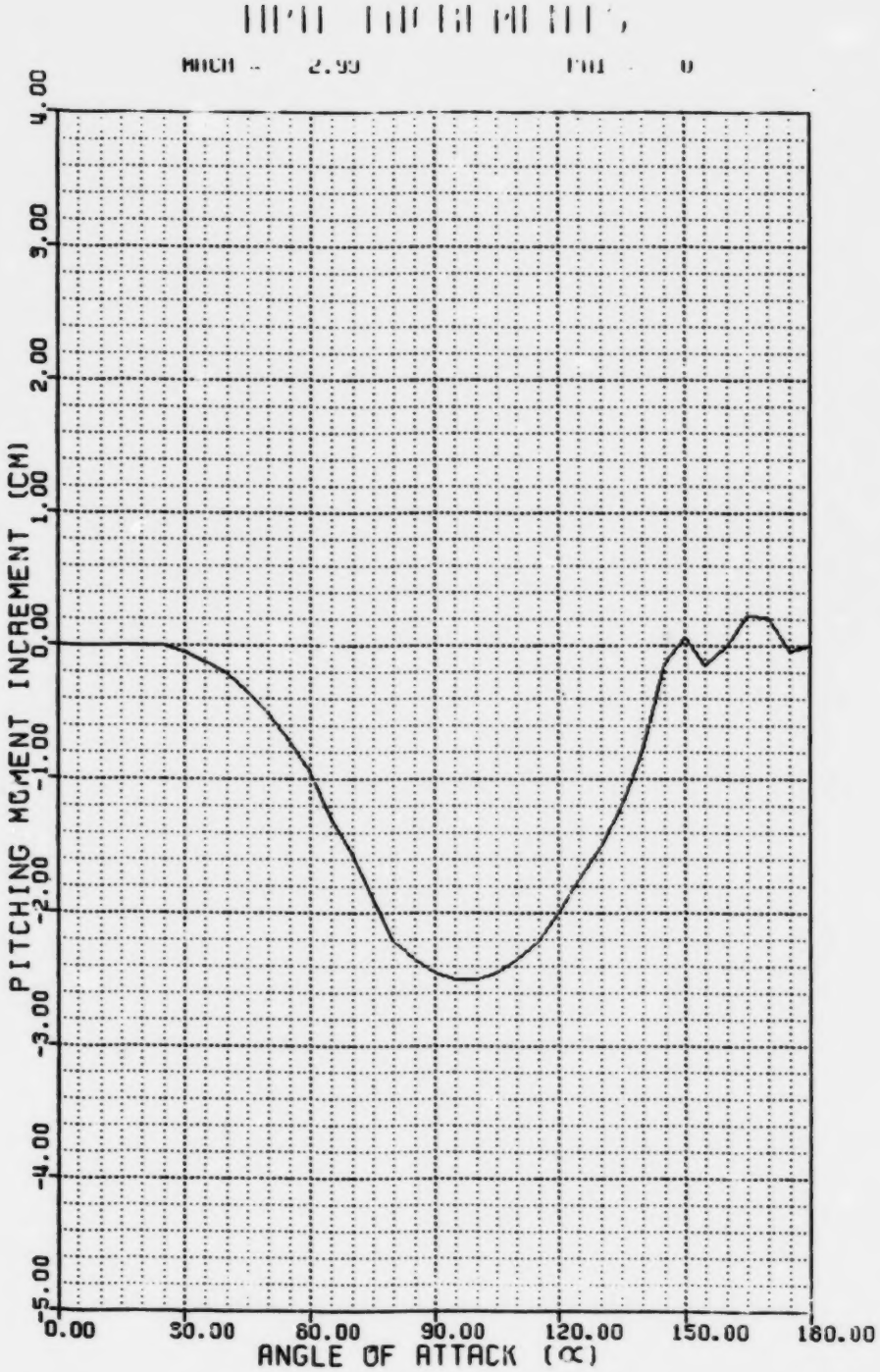

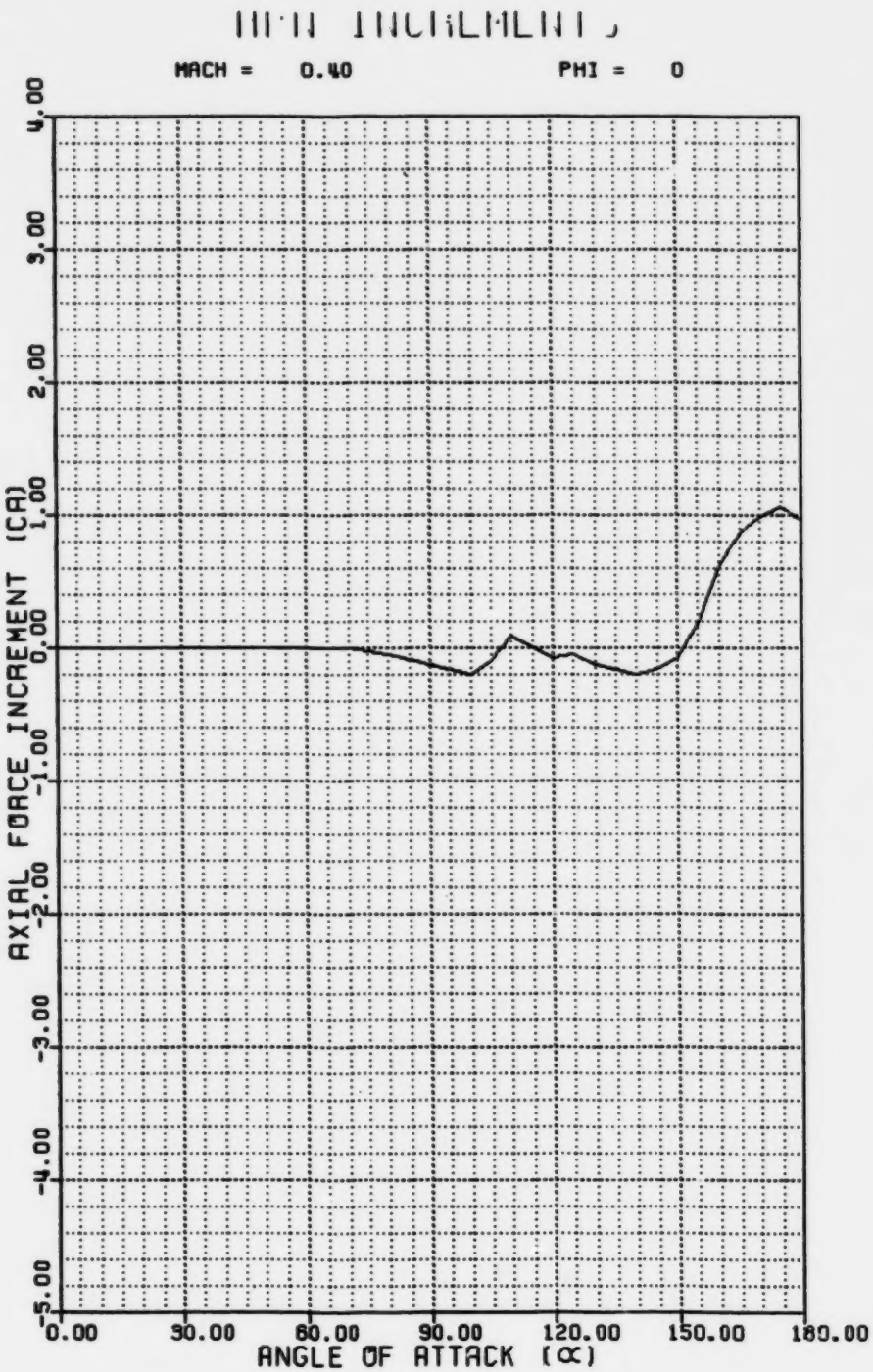
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2.00
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0.00
-1.00
-2.00
-3.00
-4.00
-5.00
0.00
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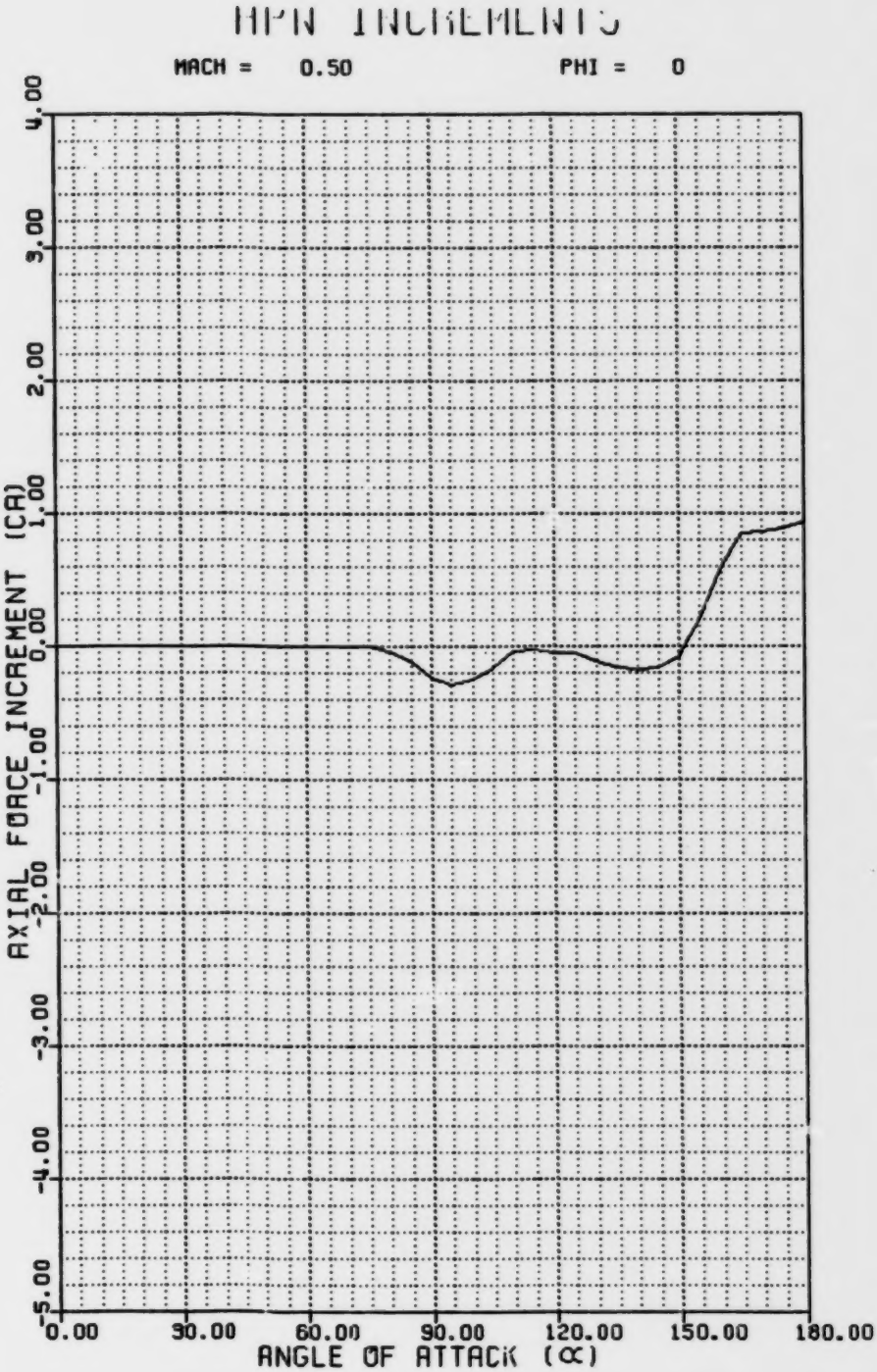
60.00
90.00
120.00
150.00
180.00
ANGLE OF ATTACK (α)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3.00
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1.00
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-2.00
-3.00
-4.00
-5.00
0.00
30.00
60.00
90.00
120.00
150.00
180.00
ANGLE OF ATTACK (α)

HPN INCREMENTS

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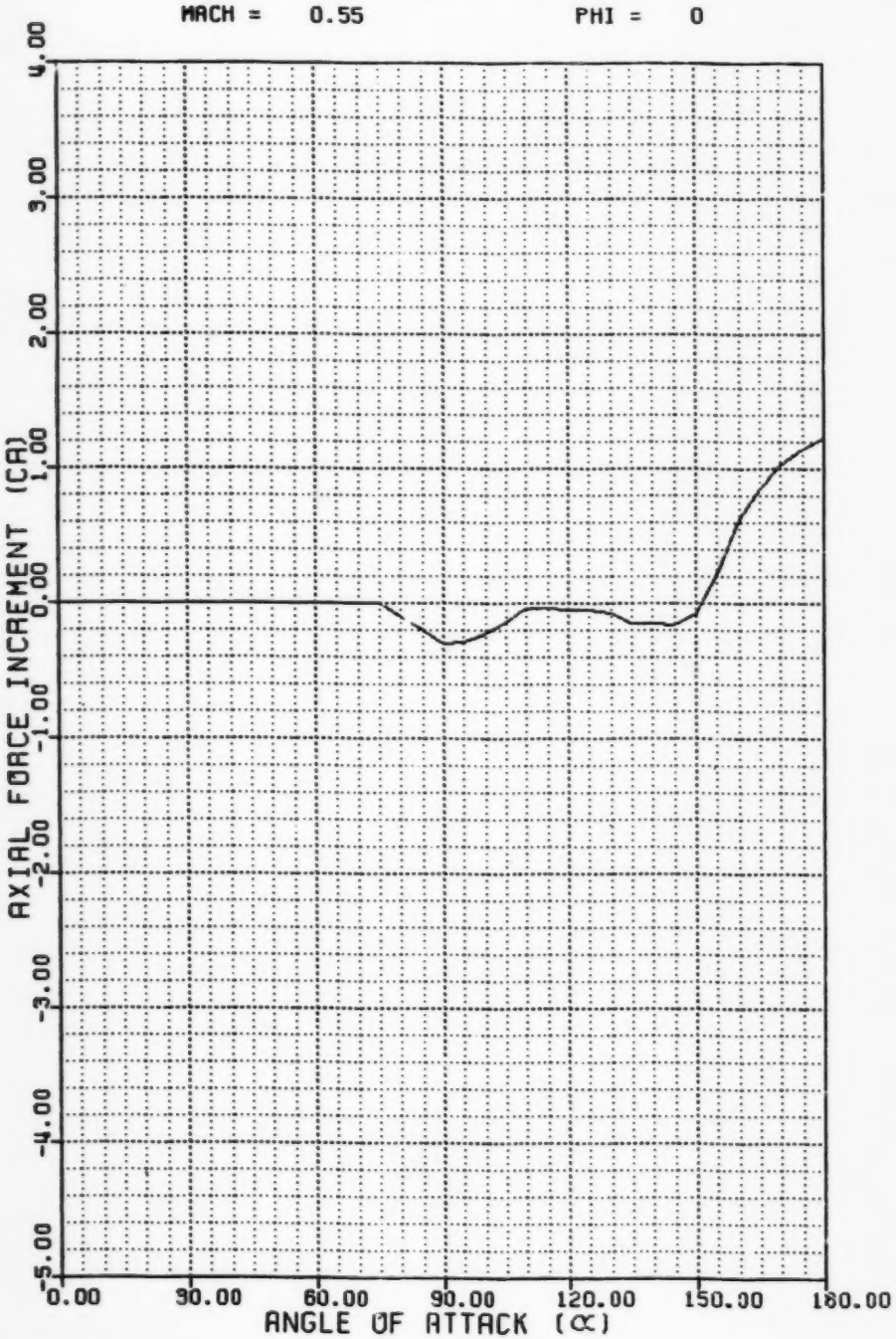

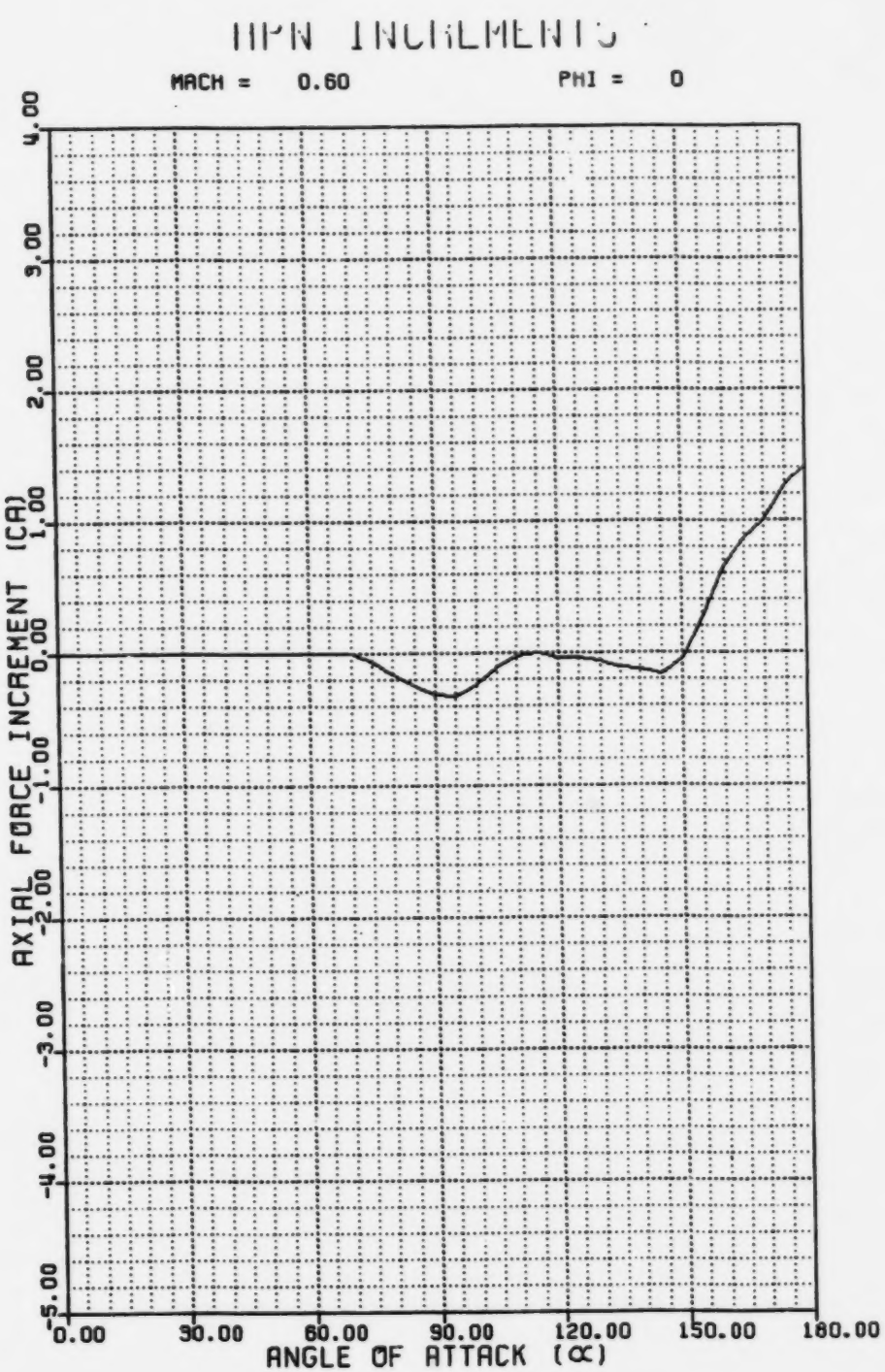
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PHI = 0
AXIAL FORCE INCREMENT (CA)
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3.00
2.00
1.00
0.00
-1.00
-2.00
-3.00
-4.00
-5.00
0.00
30.00
60.00
90.00
120.00
150.00
180.00
ANGLE OF ATTACK (α)

ORIGINAL PAGE IS
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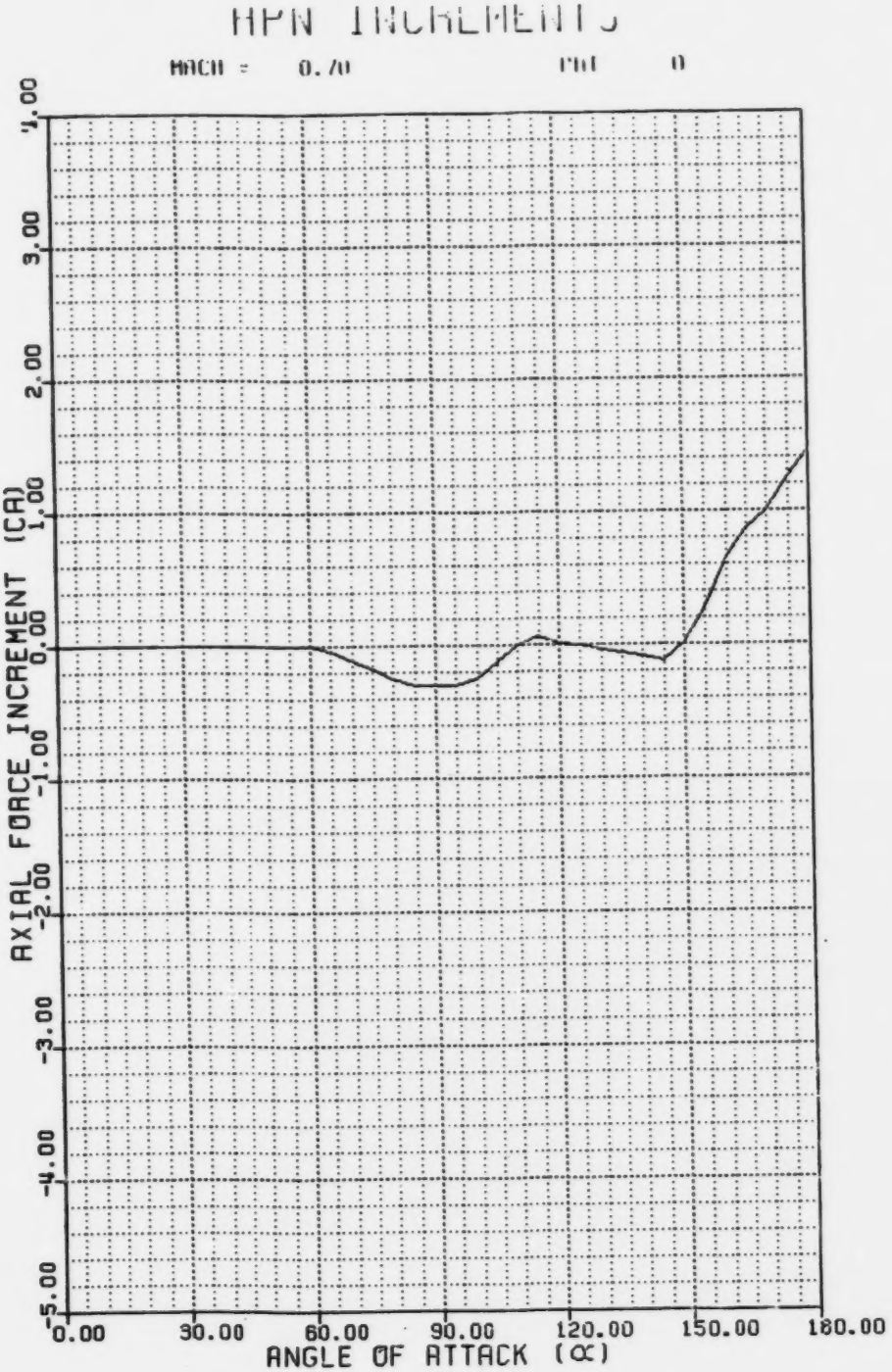

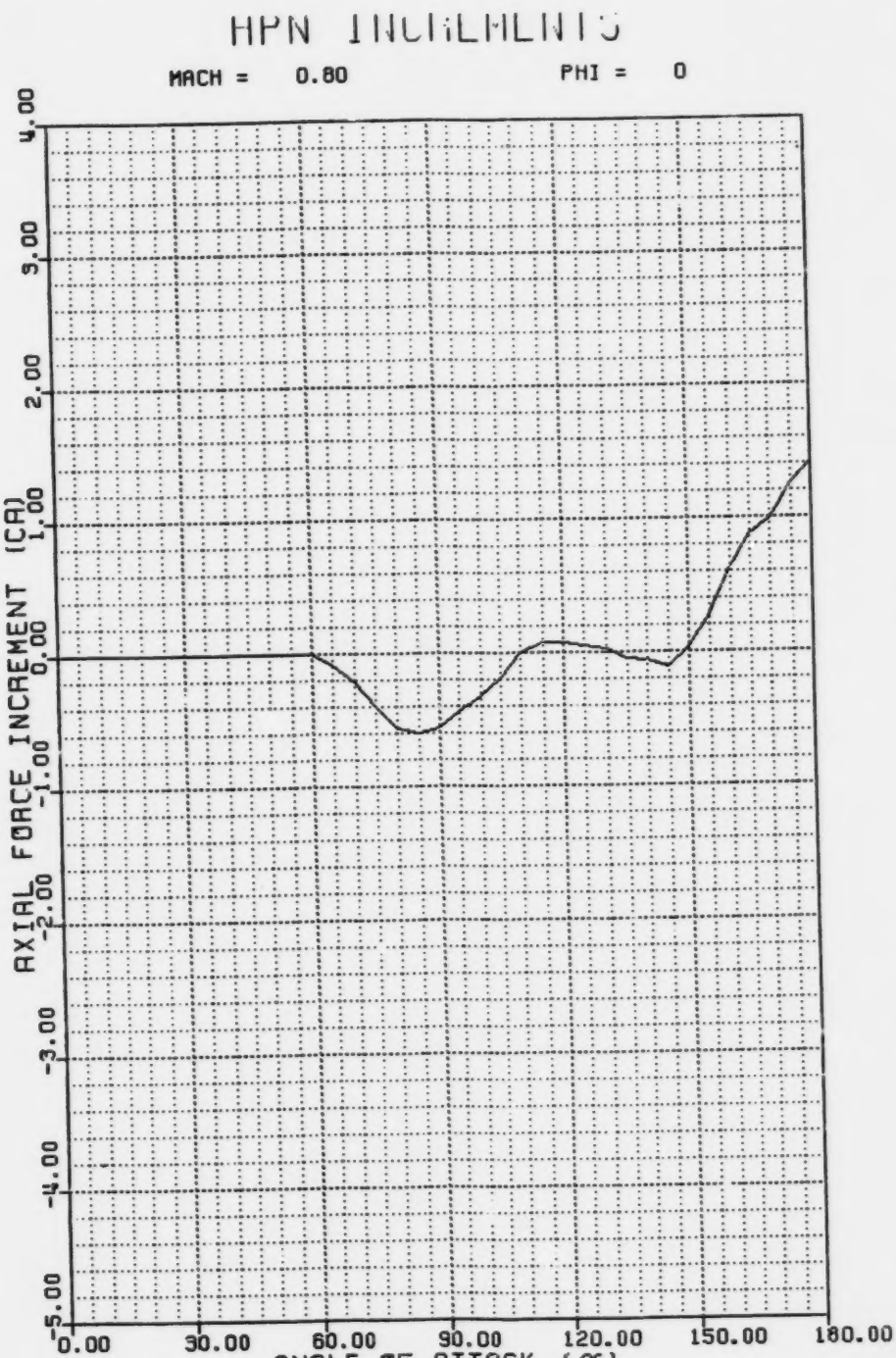
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AXIAL FORCE INCREMENT (CA)
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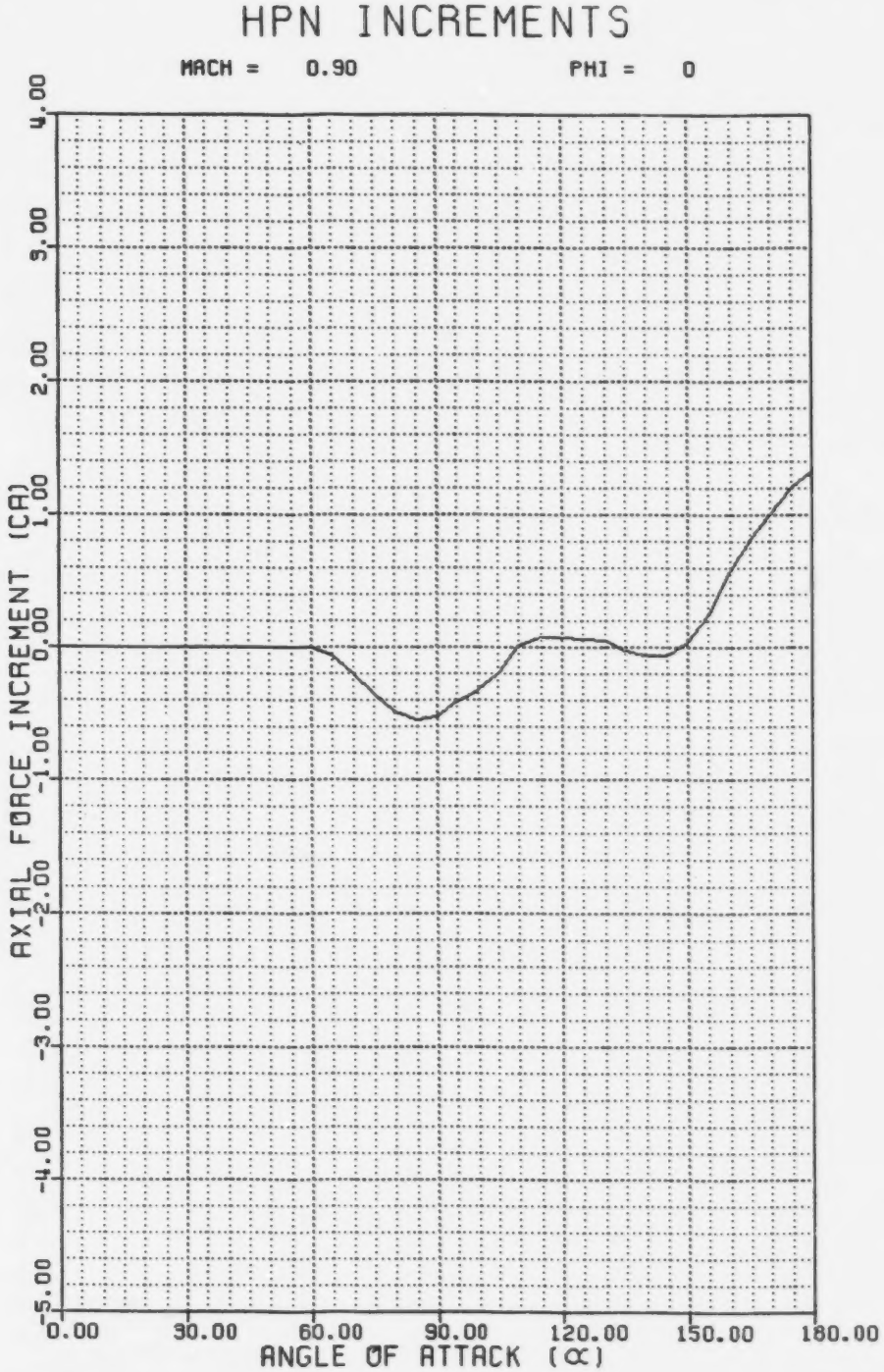
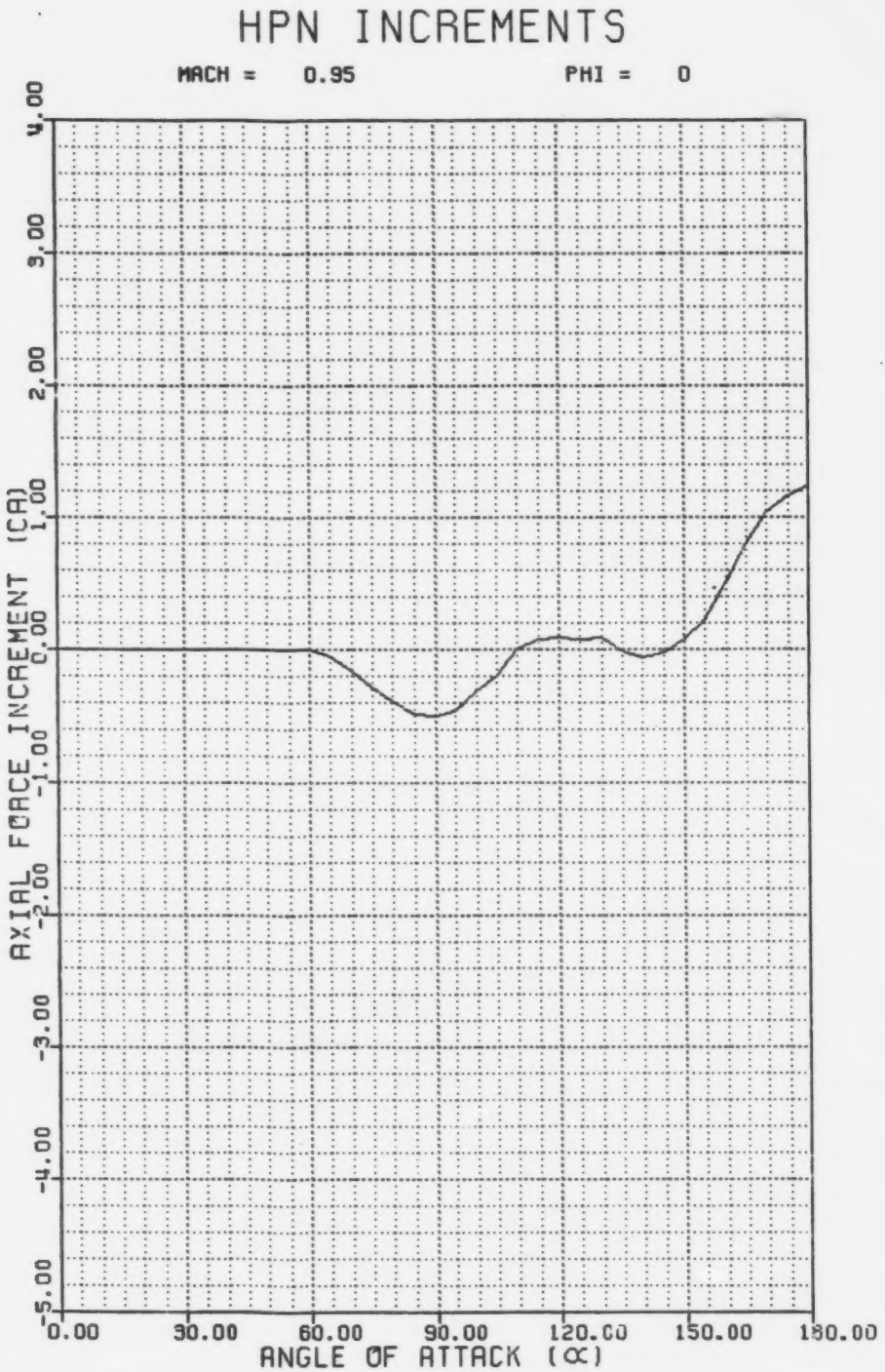
2.00
1.00
0.00
-1.00
-2.00
-3.00
-4.00
-5.00
0.00
30.00
60.00
90.00
120.00
150.00
180.00
ANGLE OF ATTACK (α)

ORIGINAL PAGE IS
OF POOR QUALITY

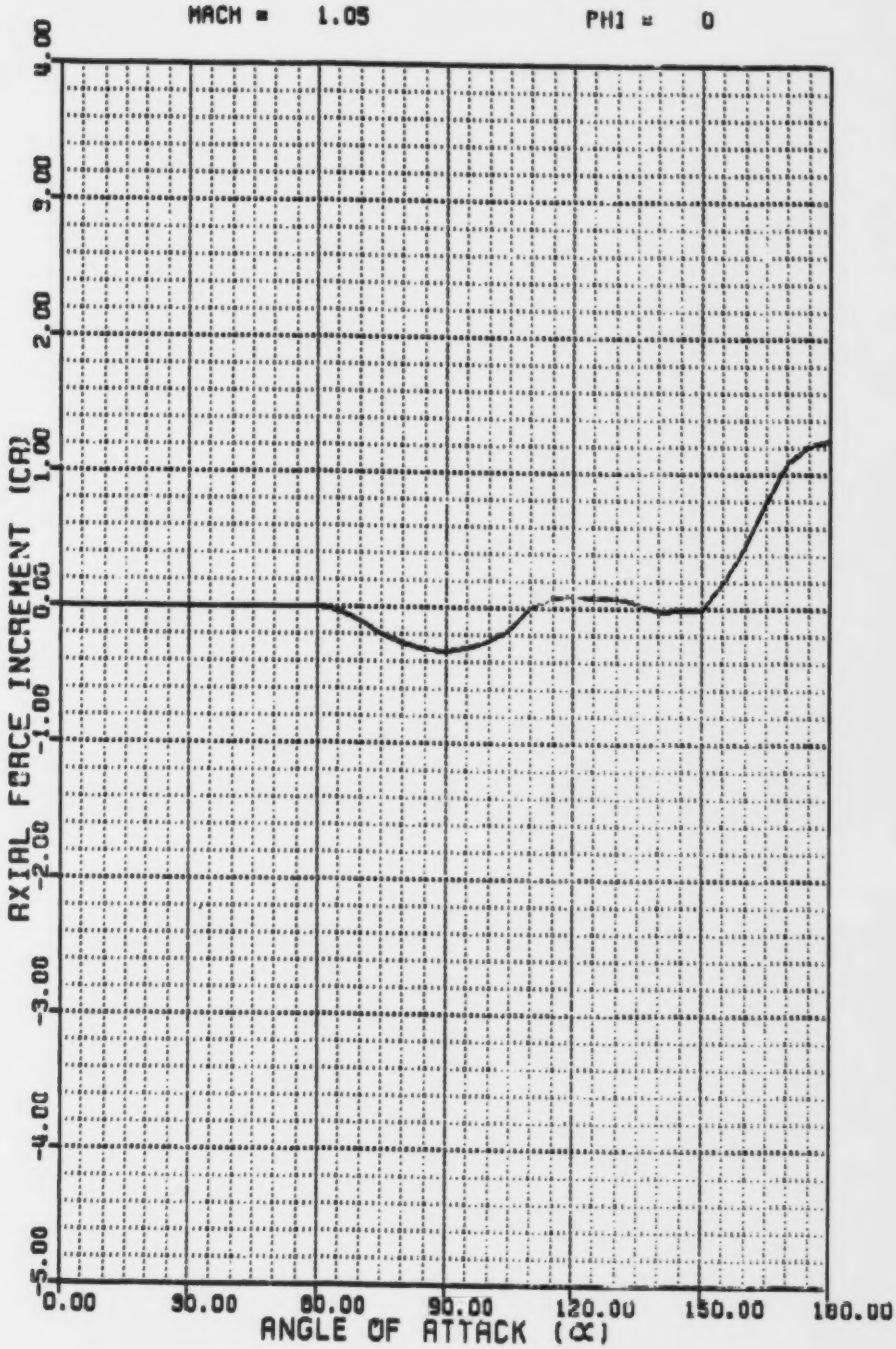



HPN INCREMENTS
MACH = 0.95
PHI = 0
AXIAL FORCE INCREMENT (CA)
4.00
3.00
2.00
1.00
0.00
-1.00
-2.00
-3.00
-4.00
-5.00
0.00
30.00
60.00
90.00
120.00
150.00
180.00
ANGLE OF ATTACK (α)

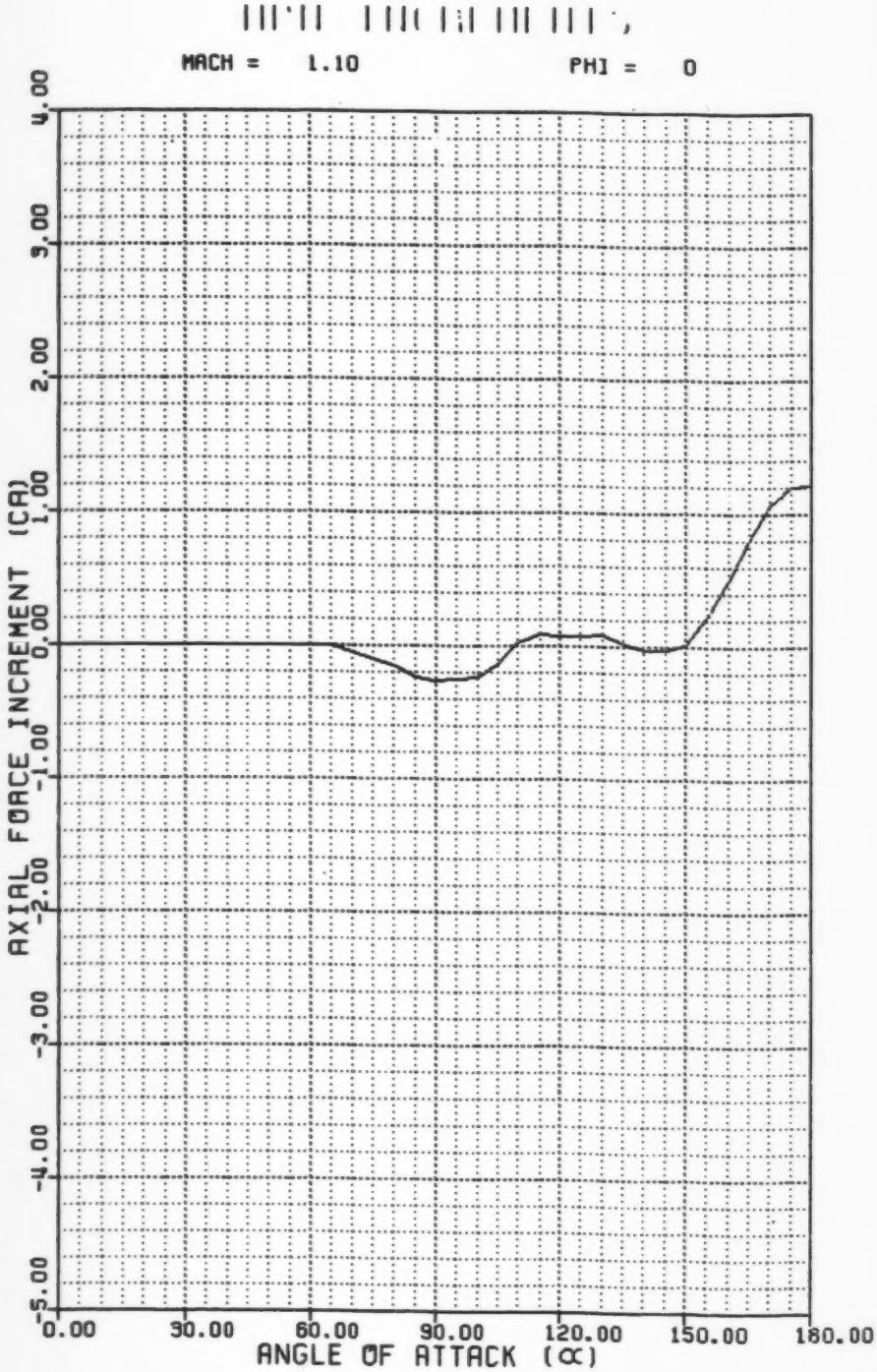
ORIGINAL PAGE IS
OF POOR QUALITY

HPN INCREMENTS

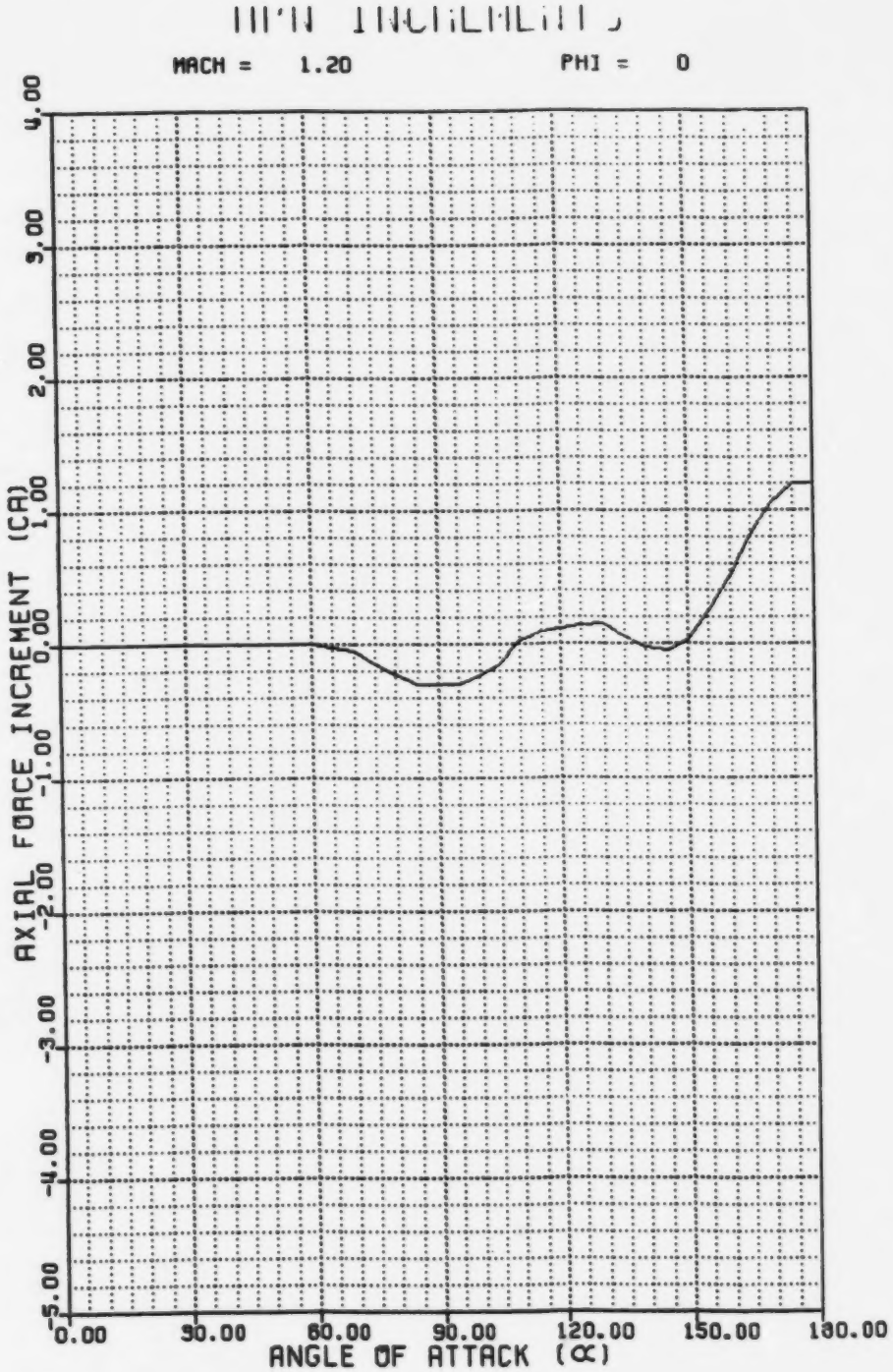
MACH = 1.05 PHI = 0



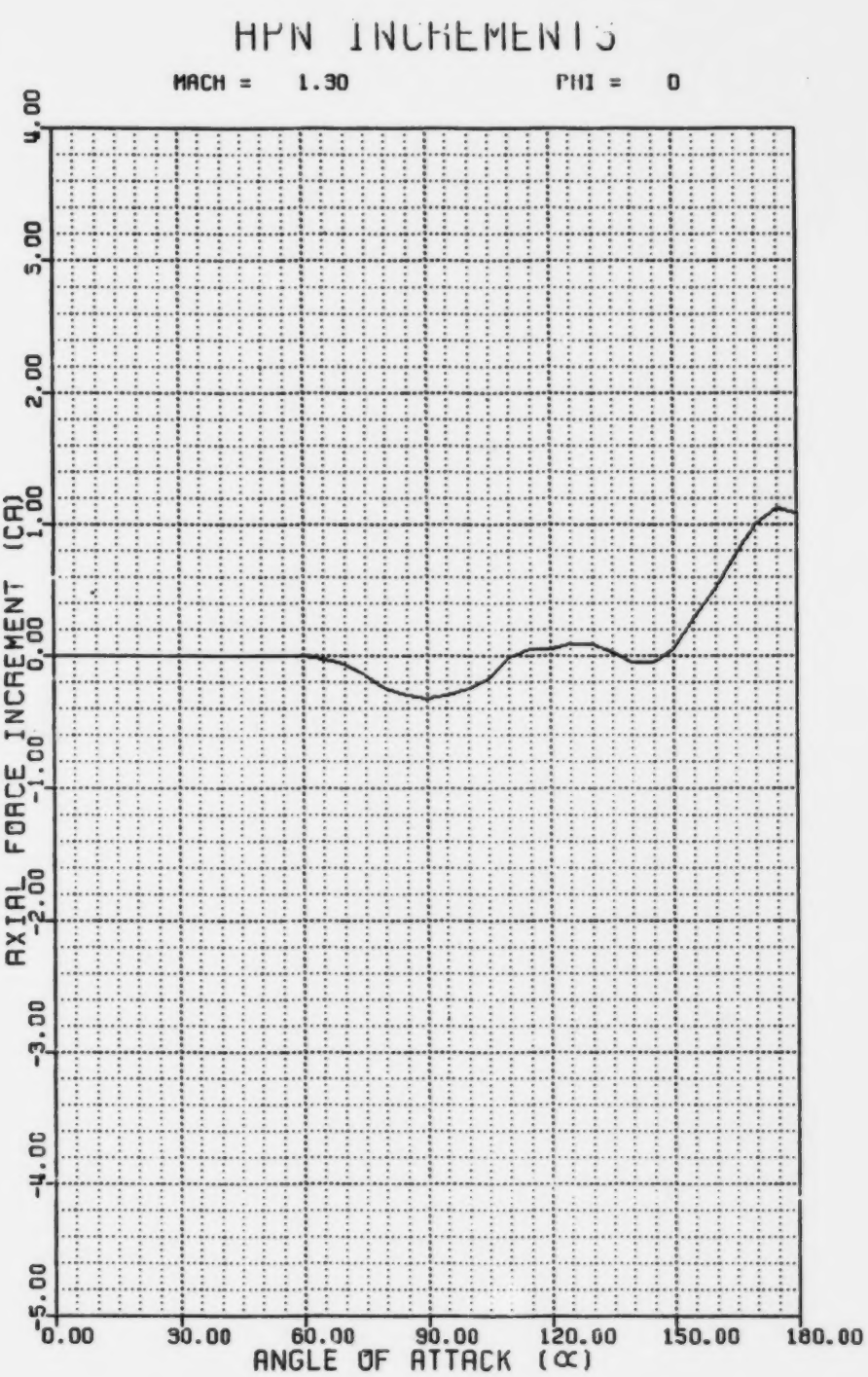
ORIGINAL PAGE IS
OF POOR QUALITY



ORIGINAL PAGE IS
OF POOR QUALITY

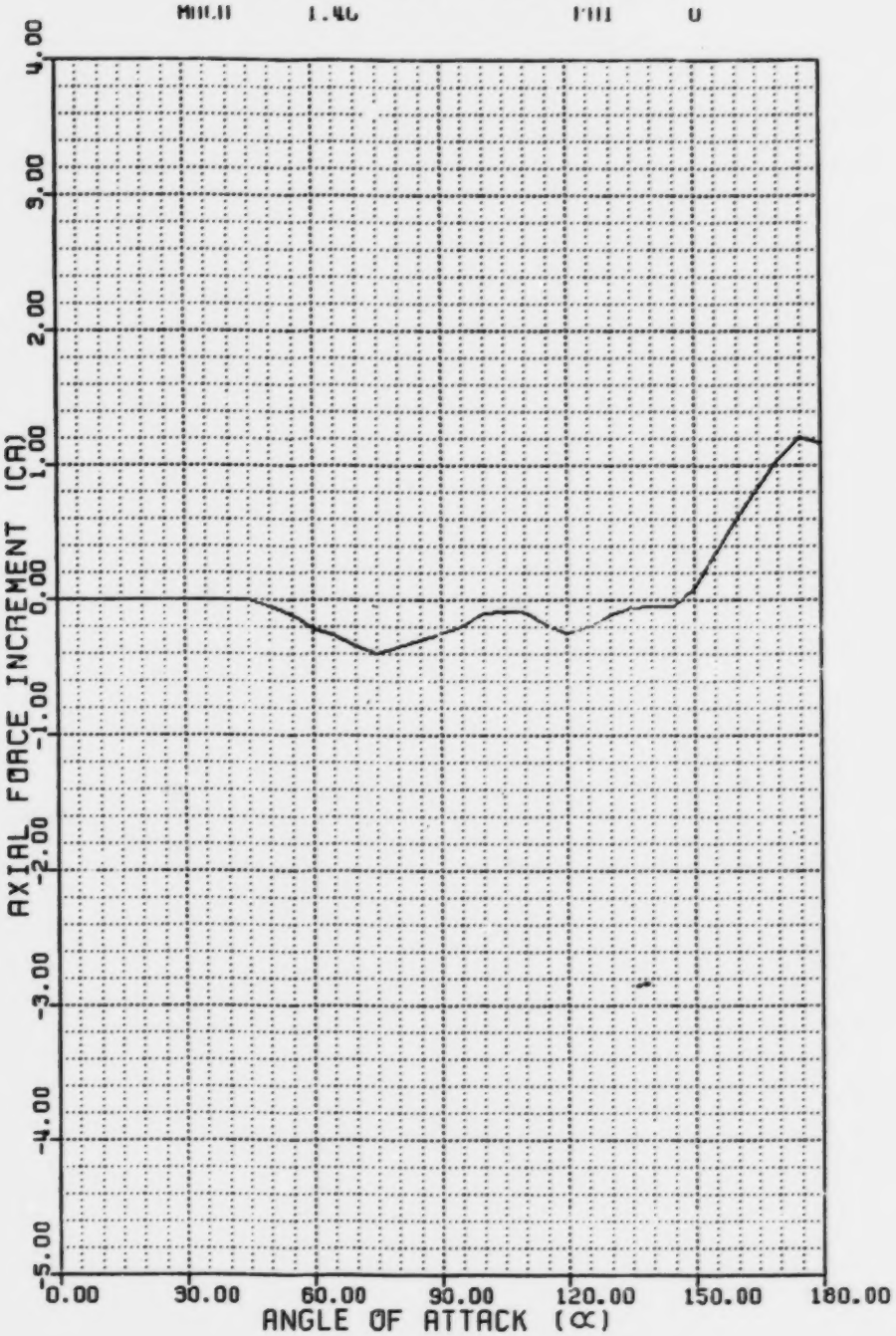


ORIGINAL PAGE IS
OF POOR QUALITY



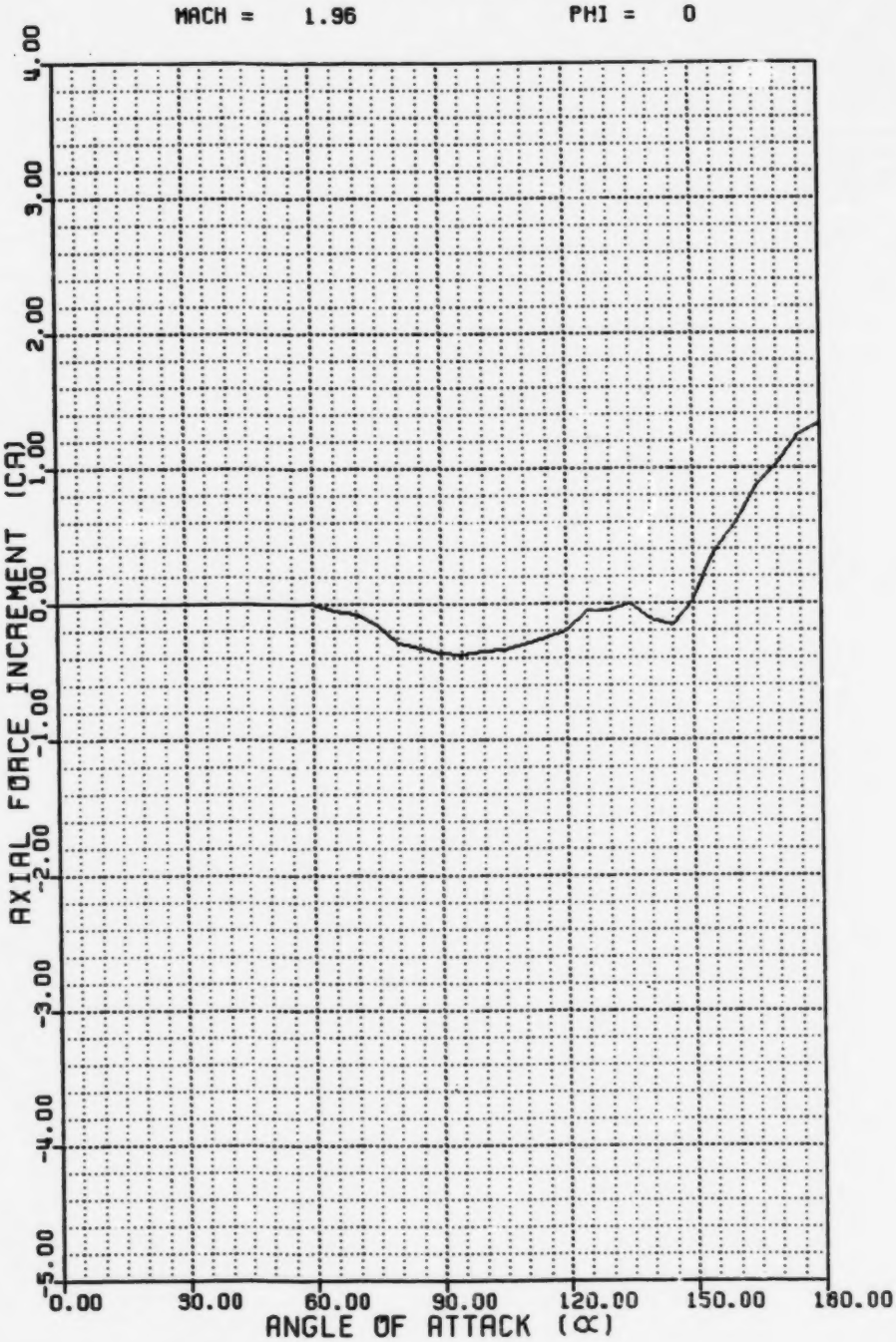
HPN INCREMENTS

MACH 1.46 PHI 0

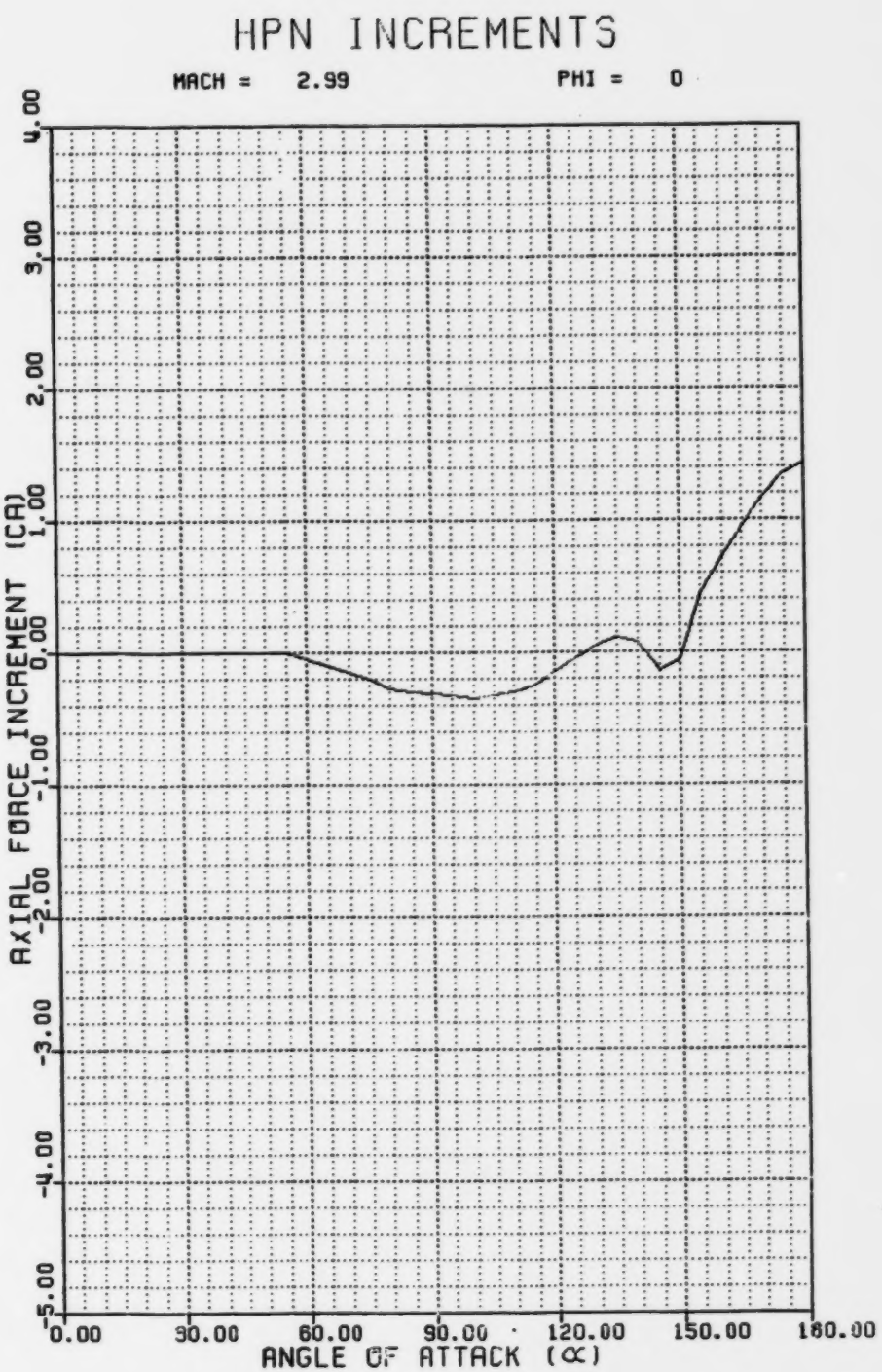


HPN INCREMENTS

MACH = 1.96 PHI = 0



High Performance Nozzle Increments


HPN INCREMENTS
MACH = 2.99
PHI = 0
AXIAL FORCE INCREMENT (CA)
4.00
3.00
2.00
1.00
0.00
-1.00
-2.00
-3.00
-4.00
-5.00
0.00
30.00
60.00
90.00
120.00
150.00
180.00
ANGLE OF ATTACK (α)

HIGH PERFORMANCE NOZZLE INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.40
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	-0.04500000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	-0.13000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	-0.20050000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	-0.30500001	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.04500000	-0.44499999	0.00000000	0.00000000	-0.02500000	0.00000000
80.	0.10500000	-0.60049999	0.00000000	0.00000000	-0.04500000	0.00000000
85.	0.23000000	-0.73000002	0.00000000	0.00000000	-0.08500000	0.00000000
90.	0.34500000	-0.89109999	0.00000000	0.00000000	-0.12690000	0.00000000
95.	0.44499999	-1.07000005	0.00000000	0.00000000	-0.16670001	0.00000000
100.	0.50449997	-1.22459996	0.00000000	0.00000000	-0.20330000	0.00000000
105.	0.55049998	-1.34000003	0.00000000	0.00000000	-0.09470000	0.00000000
110.	0.48500001	-1.45879996	0.00000000	0.00000000	0.08790000	0.00000000
115.	0.40050000	-1.55050004	0.00000000	0.00000000	-0.00460000	0.00000000
120.	0.36970001	-1.57809997	0.00000000	0.00000000	-0.07930000	0.00000000
125.	0.42480001	-1.48150003	0.00000000	0.00000000	-0.05130000	0.00000000
130.	0.57139999	-1.21879995	0.00000000	0.00000000	-0.12650000	0.00000000
135.	0.55500001	-0.80500001	0.00000000	0.00000000	-0.15830000	0.00000000
140.	0.42660001	-0.46790001	0.00000000	0.00000000	-0.19550000	0.00000000
145.	0.17919999	-0.19000000	0.00000000	0.00000000	-0.16520000	0.00000000
150.	-0.10790000	-0.22229999	0.00000000	0.00000000	-0.07920000	0.00000000
155.	-0.06450000	-0.35820001	0.00000000	0.00000000	0.17919999	0.00000000
160.	-0.03350000	-0.55599999	0.00000000	0.00000000	0.61030000	0.00000000
165.	-0.16170000	-0.63249999	0.00000000	0.00000000	0.85900003	0.00000000
170.	-0.08900000	-0.56330001	0.00000000	0.00000000	0.98900002	0.00000000
175.	0.06540000	-0.34500000	0.00000000	0.00000000	1.06690001	0.00000000
180.	0.00000000	0.00000000	0.00000000	0.00000000	0.95980000	0.00000000

ORIGINAL PAGE IS
OF POOR QUALITY

HIGH PERFORMANCE NOZZLE INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.55*LREF (STA 1255.9)

MACH= 0.50
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00210000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	-0.00210000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	-0.05010000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	-0.14500000	0.00000000	0.00000000	0.00140000	0.00000000
80.	0.05050000	-0.25049999	0.00000000	0.00000000	-0.03870000	0.00000000
85.	0.20050000	-0.39170000	0.00000000	0.00000000	-0.11670000	0.00000000
90.	0.39500001	-0.56050003	0.00000000	0.00000000	-0.23920000	0.00000000
95.	0.59500003	-0.75110000	0.00000000	0.00000000	-0.28169999	0.00000000
100.	0.65050000	-1.06879997	0.00000000	0.00000000	-0.25619999	0.00000000
105.	0.58950000	-1.57060003	0.00000000	0.00000000	-0.16110000	0.00000000
110.	0.39940000	-1.99039996	0.00000000	0.00000000	-0.03800000	0.00000000
115.	0.31720001	-2.11109996	0.00000000	0.00000000	-0.02220000	0.00000000
120.	0.32030000	-1.50619996	0.00000000	0.00000000	-0.05460000	0.00000000
125.	0.57429999	-1.30769995	0.00000000	0.00000000	-0.05350000	0.00000000
130.	0.74190003	-0.22970000	0.00000000	0.00000000	-0.11640000	0.00000000
135.	0.61129999	0.56580001	0.00000000	0.00000000	-0.16580001	0.00000000
140.	0.31540000	-1.00000000	0.00000000	0.00000000	-0.17720000	0.00000000
145.	-0.00600000	-0.71920002	0.00000000	0.00000000	-0.15960000	0.00000000
150.	-0.14380001	-0.20340000	0.00000000	0.00000000	-0.07260000	0.00000000
155.	-0.07690000	-0.31369999	0.00000000	0.00000000	0.20080000	0.00000000
160.	-0.04650000	-0.83560002	0.00000000	0.00000000	0.59950000	0.00000000
165.	-0.05510000	-0.84619999	0.00000000	0.00000000	0.84740001	0.00000000
170.	-0.11450000	-0.73869997	0.00000000	0.00000000	0.86049998	0.00000000
175.	0.06690000	-0.44909999	0.00000000	0.00000000	0.88450003	0.00000000
180.	0.00000000	0.00000000	0.00000000	0.00000000	0.93570000	0.00000000

ORIGINAL PAGE IS
OF POOR QUALITY

HIGH PERFORMANCE NOZZLE INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH = 0.55
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	-0.05150000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	-0.13670000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	-0.25170001	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	-0.50110000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	-0.74669999	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	-0.96670002	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.00000000	-1.15670002	0.00000000	0.00000000	-0.09970000	0.00000000
85.	0.06650000	-1.35150003	0.00000000	0.00000000	-0.20110001	0.00000000
90.	0.15670000	-1.54970002	0.00000000	0.00000000	-0.29390001	0.00000000
95.	0.30019999	-1.69649994	0.00000000	0.00000000	-0.29310000	0.00000000
100.	0.47240001	-1.82159996	0.00000000	0.00000000	-0.22650000	0.00000000
105.	0.50269997	-1.96665996	0.00000000	0.00000000	-0.14290000	0.00000000
110.	0.51200002	-2.09419990	0.00000000	0.00000000	-0.03540000	0.00000000
115.	0.49580000	-2.10409999	0.00000000	0.00000000	-0.03950000	0.00000000
120.	0.50419998	-1.57569996	0.00000000	0.00000000	-0.04400000	0.00000000
125.	0.61180001	-1.06610000	0.00000000	0.00000000	-0.04960000	0.00000000
130.	0.70599998	0.01460000	0.00000000	0.00000000	-0.07630000	0.00000000
135.	0.56770003	0.82950002	0.00000000	0.00000000	-0.14760000	0.00000000
140.	0.23300000	-1.20000005	0.00000000	0.00000000	-0.14500000	0.00000000
145.	0.01510000	-0.79400003	0.00000000	0.00000000	-0.16730000	0.00000000
150.	-0.06680000	-0.28680000	0.00000000	0.00000000	-0.07200000	0.00000000
155.	-0.06540000	-0.30579999	0.00000000	0.00000000	0.21180000	0.00000000
160.	-0.07150000	-0.85130000	0.00000000	0.00000000	0.62110001	0.00000000
165.	-0.04800000	-0.86870003	0.00000000	0.00000000	0.85360003	0.00000000
170.	-0.04240000	-0.58840001	0.00000000	0.00000000	1.01880002	0.00000000
175.	0.02140000	-0.42760000	0.00000000	0.00000000	1.14999998	0.00000000
180.	0.00000000	0.00000000	0.00000000	0.00000000	1.21879995	0.00000000

HIGH PERFORMANCE NOZZLE INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.5S*LREF (STA 1255.9)

MACH= 0.60
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	-0.00140000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	-0.05650000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	-0.14500000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	-0.30170000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	-0.60149997	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	-0.81669950	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00140000	-1.11619997	0.00000000	0.00000000	-0.00130000	0.00000000
80.	0.05170000	-1.29499996	0.00000000	0.00000000	-0.05650000	0.00000000
85.	0.13890000	-1.55669999	0.00000000	0.00000000	-0.16670001	0.00000000
90.	0.23390000	-1.74500000	0.00000000	0.00000000	-0.25170001	0.00000000
95.	0.33690000	-1.89900005	0.00000000	0.00000000	-0.31150001	0.00000000
100.	0.38659999	-2.00659999	0.00000000	0.00000000	-0.32670000	0.00000000
105.	0.42080000	-2.20429993	0.00000000	0.00000000	-0.23700000	0.00000000
110.	0.47660000	-2.21690011	0.00000000	0.00000000	-0.11410000	0.00000000
115.	0.45969999	-2.20650005	0.00000000	0.00000000	-0.02090000	0.00000000
120.	0.49390000	-2.00000000	0.00000000	0.00000000	-0.00290000	0.00000000
125.	0.53369999	-0.83170003	0.00000000	0.00000000	-0.04090000	0.00000000
130.	0.56430000	0.11710000	0.00000000	0.00000000	-0.03560000	0.00000000
135.	0.26550001	0.27509999	0.00000000	0.00000000	-0.06660000	0.00000000
140.	0.07520000	-1.54560006	0.00000000	0.00000000	-0.10870000	0.00000000
145.	0.01590000	-0.74589998	0.00000000	0.00000000	-0.11990000	0.00000000
150.	-0.02730000	-0.23280001	0.00000000	0.00000000	-0.15899999	0.00000000
155.	-0.07040000	-0.25209999	0.00000000	0.00000000	-0.05590000	0.00000000
160.	-0.08270000	-0.61169999	0.00000000	0.00000000	0.24860001	0.00000000
165.	-0.03980000	-0.68730001	0.00000000	0.00000000	0.64690000	0.00000000
170.	-0.03050000	-0.65770000	0.00000000	0.00000000	0.85659999	0.00000000
175.	0.00850000	-0.63980001	0.00000000	0.00000000	1.00500000	0.00000000
180.	0.00000000	0.00000000	0.00000000	0.00000000	1.26629996	0.00000000
					1.41750002	0.00000000

ORIGINAL PAGE IS
OF POOR QUALITY

HIGH PERFORMANCE NOZZLE INCREMENT

MACH= 0.70
PHI= 0.

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	-0.04500000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	-0.10020000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	-0.21090000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	-0.36669999	0.00000000	0.00000000	-0.04170000	0.00000000
65.	0.00000000	-0.59350002	0.00000000	0.00000000	-0.10670000	0.00000000
70.	0.00000000	-0.75890001	0.00000000	0.00000000	-0.17670000	0.00000000
75.	0.04590000	-1.00000000	0.00000000	0.00000000	-0.24500000	0.00000000
80.	0.10070000	-1.24500000	0.00000000	0.00000000	-0.30000001	0.00000000
85.	0.15719999	-1.48350000	0.00000000	0.00000000	-0.30500001	0.00000000
90.	0.25049999	-1.64649999	0.00000000	0.00000000	-0.30199999	0.00000000
95.	0.36149999	-1.61850004	0.00000000	0.00000000	-0.24950001	0.00000000
100.	0.49250001	-2.02929997	0.00000000	0.00000000	-0.11890000	0.00000000
105.	0.55810003	-2.19459991	0.00000000	0.00000000	0.00430000	0.00000000
110.	0.57000001	-2.27500010	0.00000000	0.00000000	0.06020000	0.00000000
115.	0.36660001	-2.63179994	0.00000000	0.00000000	0.01080000	0.00000000
120.	0.20690000	-2.51799989	0.00000000	0.00000000	0.00550000	0.00000000
125.	0.36399999	-1.53509998	0.00000000	0.00000000	-0.03880000	0.00000000
130.	0.52980000	-0.55570000	0.00000000	0.00000000	-0.06130000	0.00000000
135.	-0.02720000	-1.23570001	0.00000000	0.00000000	-0.08810000	0.00000000
140.	-0.05460000	-1.98699999	0.00000000	0.00000000	-0.12050000	0.00000000
145.	0.01190000	-0.79329997	0.00000000	0.00000000	0.01560000	0.00000000
150.	-0.16050000	-0.34079999	0.00000000	0.00000000	0.27689999	0.00000000
155.	-0.09550000	-0.19140001	0.00000000	0.00000000	0.65499997	0.00000000
160.	-0.12989999	-0.70679998	0.00000000	0.00000000	0.86650002	0.00000000
165.	-0.01400000	-0.67400001	0.00000000	0.00000000	0.99669999	0.00000000
170.	-0.01690000	-0.65700001	0.00000000	0.00000000	1.24650002	0.00000000
175.	0.05140000	-0.44319999	0.00000000	0.00000000	1.44719994	0.00000000
180.	0.00000000	0.00000000				

ORIGINAL PAGE IS
OF POOR QUALITY

HIGH PERFORMANCE NOZZLE INCREMENT

DREF=145 IN
LREF=1709.6 IN
MRP=.59%LREF (STA 1255.9)

MACH= 0.60
PHI= 0.

ALPHA	CN	CN	CY	CYN	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.15050000	-0.05550000	0.00000000	0.00000000	-0.00890000	0.00000000
70.	0.23850000	-0.19499999	0.00000000	0.00000000	-0.21160001	0.00000000
75.	0.31670001	-0.35499999	0.00000000	0.00000000	-0.40850000	0.00000000
80.	0.42150000	-0.69499999	0.00000000	0.00000000	-0.55650002	0.00000000
85.	0.55170000	-1.02390003	0.00000000	0.00000000	-0.59649998	0.00000000
90.	0.61669999	-1.45570004	0.00000000	0.00000000	-0.56870002	0.00000000
95.	0.64649999	-1.81690001	0.00000000	0.00000000	-0.43950000	0.00000000
100.	0.65240002	-2.26759999	0.00000000	0.00000000	-0.32730001	0.00000000
105.	0.63499999	-2.53899999	0.00000000	0.00000000	-0.18570000	0.00000000
110.	0.66119999	-2.72329999	0.00000000	0.00000000	0.00350000	0.00000000
115.	0.48159999	-2.70910001	0.00000000	0.00000000	0.07910000	0.00000000
120.	0.36500001	-2.16959999	0.00000000	0.00000000	0.06950000	0.00000000
125.	0.21430001	-2.11949992	0.00000000	0.00000000	0.04650000	0.00000000
130.	0.20410000	-1.89440000	0.00000000	0.00000000	0.02360000	0.00000000
135.	0.22450000	-1.32459998	0.00000000	0.00000000	-0.04900000	0.00000000
140.	0.15800001	-1.15009999	0.00000000	0.00000000	-0.06760000	0.00000000
145.	0.11500000	-0.76789999	0.00000000	0.00000000	-0.11400000	0.00000000
150.	0.03730000	-0.26210001	0.00000000	0.00000000	0.03670000	0.00000000
155.	-0.10660000	-0.16750000	0.00000000	0.00000000	0.27260000	0.00000000
160.	-0.17129999	-0.61110002	0.00000000	0.00000000	0.62410003	0.00000000
165.	0.02690000	-0.82499999	0.00000000	0.00000000	0.87370002	0.00000000
170.	0.01720000	-0.67510003	0.00000000	0.00000000	0.98920000	0.00000000
175.	0.01790000	-0.39050001	0.00000000	0.00000000	1.24810004	0.00000000
180.	0.00000000	0.00000000	0.00000000	0.00000000	1.41520000	0.00000000

ORIGINAL PAGE IS
OF POOR QUALITY

HIGH PERFORMANCE NOZZLE INCREMENT

DREF=145 IN
LREF=1769.6 IN
MRP=.55*LREF (STA 1255.9)

MACH= 0.90
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	-0.10560000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	-0.29760000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	-0.61559999	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	-0.93560000	0.00000000	0.00000000	-0.06660000	0.00000000
70.	0.00000000	-1.34399997	0.00000000	0.00000000	-0.19859999	0.00000000
75.	0.14650000	-1.73999995	0.00000000	0.00000000	-0.35060000	0.00000000
80.	0.28660000	-2.14899993	0.00000000	0.00000000	-0.49039999	0.00000000
85.	0.38559999	-2.44499993	0.00000000	0.00000000	-0.54660002	0.00000000
90.	0.31650000	-2.72359991	0.00000000	0.00000000	-0.52359998	0.00000000
95.	0.40970001	-2.89499998	0.00000000	0.00000000	-0.41559999	0.00000000
100.	0.53749001	-3.04279995	0.00000000	0.00000000	-0.32200000	0.00000000
105.	0.55540001	-3.09559989	0.00000000	0.00000000	-0.19450000	0.00000000
110.	0.50819997	-3.03719992	0.00000000	0.00000000	0.00730000	0.00000000
115.	0.52950001	-3.02629995	0.00000000	0.00000000	0.07930000	0.00000000
120.	0.41339993	-2.55340004	0.00000000	0.00000000	0.07950000	0.00000000
125.	0.18780001	-1.84689999	0.00000000	0.00000000	0.05750000	0.00000000
130.	0.15449999	-1.59420002	0.00000000	0.00000000	0.05530000	0.00000000
135.	0.28600001	-1.27569997	0.00000000	0.00000000	-0.02230000	0.00000000
140.	0.13050000	-1.43649995	0.00000000	0.00000000	-0.05900000	0.00000000
145.	0.30270001	-0.62230003	0.00000000	0.00000000	-0.05760000	0.00000000
150.	0.33599999	0.12020000	0.00000000	0.00000000	0.04190000	0.00000000
155.	-0.15470000	-0.07570000	0.00000000	0.00000000	0.23989999	0.00000000
160.	-0.16050000	-0.32249999	0.00000000	0.00000000	0.57940000	0.00000000
165.	0.18760000	-0.63480000	0.00000000	0.00000000	0.81690001	0.00000000
170.	0.03700000	-0.61299998	0.00000000	0.00000000	0.99479997	0.00000000
175.	0.00580000	-0.26240000	0.00000000	0.00000000	1.19910002	0.00000000
180.	0.00000000	0.00000000	0.00000000	0.00000000	1.32369995	0.00000000

ORIGINAL PAGE IS
OF POOR QUALITY

HIGH PERFORMANCE NOZZLE INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.95
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	-0.05560000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	-0.14850000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	-0.28889999	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	-0.45559999	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.05060000	-0.71670002	0.00000000	0.00000000	-0.05560000	0.00000000
70.	0.10170000	-1.04469994	0.00000000	0.00000000	-0.15670000	0.00000000
75.	0.19560000	-1.44560003	0.00000000	0.00000000	-0.28360000	0.00000000
80.	0.30010000	-1.64560001	0.00000000	0.00000000	-0.38830000	0.00000000
85.	0.40059999	-2.20560002	0.00000000	0.00000000	-0.48390001	0.00000000
90.	0.54560000	-2.54859996	0.00000000	0.00000000	-0.49669999	0.00000000
95.	0.55559999	-2.83850009	0.00000000	0.00000000	-0.45890000	0.00000000
100.	0.60490000	-3.12650009	0.00000000	0.00000000	-0.31619999	0.00000000
105.	0.58160001	-3.19560003	0.00000000	0.00000000	-0.19570000	0.00000000
110.	0.51429999	-3.14240003	0.00000000	0.00000000	0.00490000	0.00000000
115.	0.51770002	-2.92729998	0.00000000	0.00000000	0.07570000	0.00000000
120.	0.44130000	-2.54010010	0.00000000	0.00000000	0.08500000	0.00000000
125.	0.33000001	-2.59290004	0.00000000	0.00000000	0.07920000	0.00000000
130.	0.03250000	-2.48510003	0.00000000	0.00000000	0.09230000	0.00000000
135.	0.15560000	-1.66820002	0.00000000	0.00000000	-0.01000000	0.00000000
140.	0.43360001	-0.93360001	0.00000000	0.00000000	-0.05710000	0.00000000
145.	0.23469999	-0.55980003	0.00000000	0.00000000	-0.02450000	0.00000000
150.	0.15390000	-0.33309999	0.00000000	0.00000000	0.07470000	0.00000000
155.	-0.11500000	-0.37079999	0.00000000	0.00000000	0.22380000	0.00000000
160.	-0.09710000	-0.30560001	0.00000000	0.00000000	0.50800002	0.00000000
165.	0.17670000	-0.49419999	0.00000000	0.00000000	0.79740000	0.00000000
170.	0.04240000	-0.62489998	0.00000000	0.00000000	1.03260005	0.00000000
175.	0.03930000	-0.30739999	0.00000000	0.00000000	1.16649997	0.00000000
180.	0.00000000	0.00000000	0.00000000	0.00000000	1.23529994	0.00000000

ORIGINAL PAGE IS
OF POOR QUALITY

HIGH PERFORMANCE NOZZLE INCREMENT

DREF=146 IN
LREF=1769.6 IN
MRP=.55*LREF (STA 1255.9)

MACH= 1.20
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	-0.02179000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	-0.10000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	-0.31670001	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	-0.75559998	0.00000000	0.00000000	-0.02390000	0.00000000
70.	0.00000000	-1.27219999	0.00000000	0.00000000	-0.05876000	0.00000000
75.	0.04150000	-1.86670005	0.00000000	0.00000000	-0.19499999	0.00000000
80.	0.10560000	-2.21670008	0.00000000	0.00000000	-0.26659993	0.00000000
85.	0.20559999	-2.42170000	0.00000000	0.00000000	-0.31660000	0.00000000
90.	0.32539999	-2.51729989	0.00000000	0.00000000	-0.32659999	0.00000000
95.	0.45670000	-2.52300000	0.00000000	0.00000000	-0.29855999	0.00000000
100.	0.65160000	-2.37639999	0.00000000	0.00000000	-0.24670000	0.00000000
105.	0.74459999	-2.03560009	0.00000000	0.00000000	-0.15730000	0.00000000
110.	0.66670001	-2.32739997	0.00000000	0.00000000	-0.00570000	0.00000000
115.	0.31779999	-2.58119988	0.00000000	0.00000000	0.06040000	0.00000000
120.	0.38519999	-2.16079998	0.00000000	0.00000000	0.09100000	0.00000000
125.	0.42459999	-2.08640003	0.00000000	0.00000000	0.07680000	0.00000000
130.	0.37599999	-1.69529998	0.00000000	0.00000000	0.08060000	0.00000000
135.	0.30919999	-1.36000003	0.00000000	0.00000000	0.03540000	0.00000000
140.	0.34850001	-1.27499998	0.00000000	0.00000000	-0.02540000	0.00000000
145.	0.18290000	-1.34770000	0.00000000	0.00000000	-0.01830000	0.00000000
150.	0.16850001	-1.05270000	0.00000000	0.00000000	-0.00800000	0.00000000
155.	-0.04170000	-1.35789999	0.00000000	0.00000000	0.15220001	0.00000000
160.	-0.11210000	-1.17800000	0.00000000	0.00000000	0.46590000	0.00000000
165.	-0.27970001	-1.52640003	0.00000000	0.00000000	0.79250002	0.00000000
170.	-0.01200000	-0.47100000	0.00000000	0.00000000	1.07169998	0.00000000
175.	-0.00530000	-0.57370001	0.00000000	0.00000000	1.21210003	0.00000000
180.	0.00000000	0.00000000	0.00000000	0.00000000	1.24440002	0.00000000

ORGINAL PAGE IS
OF POOR QUALITY

HIGH PERFORMANCE NOZZLE INCREMEI

DREF=146 IN
LREF=1789.6 IN
MRP=.55*LREF (STA 1277.0)

MACH= 1.10
PHI= 0.

ALPHA°	CN	CM	CY	CN	CA	CA
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
85.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
90.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
95.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
100.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
105.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
110.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
115.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
120.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
125.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
130.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
135.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
140.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
145.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
150.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
155.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
160.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
165.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
170.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
175.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
180.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000

ORIGINAL PAGE IS
OF POOR QUALITY

HIGH PERFORMANCE NOZZLE INCREMENT

DREF=146 IN
LREF=1769.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.60
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	-0.02460000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	-0.09060000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	-0.24500000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	-0.54500002	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	-0.90560001	0.00000000	0.00000000	-0.03060000	0.00000000
70.	0.05670000	-1.39559996	0.00000000	0.00000000	-0.05560000	0.00000000
75.	0.14350001	-1.96560001	0.00000000	0.00000000	-0.14560001	0.00000000
80.	0.25569999	-2.58110006	0.00000000	0.00000000	-0.22810000	0.00000000
85.	0.37169999	-2.73359990	0.00000000	0.00000000	-0.30570000	0.00000000
90.	0.45559999	-2.79559994	0.00000000	0.00000000	-0.30570000	0.00000000
95.	0.50389997	-2.74959993	0.00000000	0.00000000	-0.30010000	0.00000000
100.	0.50450002	-2.56960011	0.00000000	0.00000000	-0.24270000	0.00000000
105.	0.57230002	-2.27220011	0.00000000	0.00000000	-0.14550000	0.00000000
110.	0.52100003	-2.02300000	0.00000000	0.00000000	0.02440000	0.00000000
115.	0.38699999	-2.05520010	0.00000000	0.00000000	0.08240000	0.00000000
120.	0.35470000	-1.61060001	0.00000000	0.00000000	0.10850000	0.00000000
125.	0.30129999	-1.55229998	0.00000000	0.00000000	0.13330001	0.00000000
130.	0.19569999	-1.74670005	0.00000000	0.00000000	0.14420000	0.00000000
135.	0.24370000	-1.56369996	0.00000000	0.00000000	0.05310000	0.00000000
140.	0.22930001	-1.57669997	0.00000000	0.00000000	-0.02400000	0.00000000
145.	0.43210000	-0.43799999	0.00000000	0.00000000	-0.05050000	0.00000000
150.	0.33000001	0.62169999	0.00000000	0.00000000	0.02010000	0.00000000
155.	-0.00360000	-0.02300000	0.00000000	0.00000000	0.24220000	0.00000000
160.	-0.12740000	-0.09060000	0.00000000	0.00000000	0.51099998	0.00000000
165.	-0.23150000	-0.46920001	0.00000000	0.00000000	0.81279999	0.00000000
170.	-0.07060000	-0.29080001	0.00000000	0.00000000	1.05509996	0.00000000
175.	0.02120000	-0.43790001	0.00000000	0.00000000	1.20179999	0.00000000
180.	0.00000000	0.00000000	0.00000000	0.00000000	1.20469999	0.00000000

HIGH PERFORMANCE NOZZLE INCREMENT

MACH= 1.30
PHI= 0.

DREF=145 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1233.0)

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	-0.05610000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	-0.10890000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	-0.44560000	0.00000000	0.00000000	-0.02470000	0.00000000
60.	0.00000000	-0.84960002	0.00000000	0.00000000	-0.06660000	0.00000000
65.	0.02310000	-1.30560005	0.00000000	0.00000000	-0.15560000	0.00000000
70.	0.09560000	-1.71889997	0.00000000	0.00000000	-0.25560001	0.00000000
75.	0.20060000	-2.00209999	0.00000000	0.00000000	-0.30070001	0.00000000
80.	0.32310000	-2.19959998	0.00000000	0.00000000	-0.31869999	0.00000000
85.	0.42860001	-2.29559994	0.00000000	0.00000000	-0.30059999	0.00000000
90.	0.55669999	-2.32899010	0.00000000	0.00000000	-0.25520000	0.00000000
95.	0.57489997	-2.29540009	0.00000000	0.00000000	-0.17250000	0.00000000
100.	0.53560003	-2.13009011	0.00000000	0.00000000	-0.08830000	0.00000000
105.	0.51179999	-2.05589991	0.00000000	0.00000000	0.05410000	0.00000000
110.	0.43560001	-2.03509998	0.00000000	0.00000000	0.04930000	0.00000000
115.	0.31770000	-1.62590003	0.00000000	0.00000000	0.08630000	0.00000000
120.	0.35969999	-1.61250002	0.00000000	0.00000000	0.09040000	0.00000000
125.	0.27489999	-1.29110003	0.00000000	0.00000000	0.01900000	0.00000000
130.	0.33120000	-1.30079997	0.00000000	0.00000000	-0.04700000	0.00000000
135.	0.24370000	-1.58770001	0.00000000	0.00000000	-0.04630000	0.00000000
140.	0.11640000	-0.56260002	0.00000000	0.00000000	0.05510000	0.00000000
145.	0.25499999	0.27140000	0.00000000	0.00000000	0.29150000	0.00000000
150.	0.29719999	-0.00680000	0.00000000	0.00000000	0.51529998	0.00000000
155.	0.01430000	-0.10380000	0.00000000	0.00000000	0.76410002	0.00000000
160.	-0.08950000	-0.20700000	0.00000000	0.00000000	0.99629998	0.00000000
165.	-0.16800000	-0.26610000	0.00000000	0.00000000	1.12460005	0.00000000
170.	-0.11140000	-0.33019999	0.00000000	0.00000000	1.08329999	0.00000000
175.	0.04950000	0.00000000				
180.	0.00000000					

ORIGINAL PAGE IS
OF POOR QUALITY

HIGH PERFORMANCE NOZZLE INCREMENT

DREF=146 IN
LREF=1769.6 IN
MRP=.59%LREF (STA 1255.9)

MACH= 1.45
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	-0.04560000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	-0.14560001	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	-0.29560000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	-0.52670002	0.00000000	0.00000000	-0.05110000	0.00000000
55.	0.00000000	-0.75610000	0.00000000	0.00000000	-0.11560000	0.00000000
60.	0.00000000	-1.01160004	0.00000000	0.00000000	-0.21150000	0.00000000
65.	0.00000000	-1.30060005	0.00000000	0.00000000	-0.26660001	0.00000000
70.	0.00000000	-1.60949999	0.00000000	0.00000000	-0.33809999	0.00000000
75.	0.00000000	-1.90059995	0.00000000	0.00000000	-0.40560001	0.00000000
80.	0.00000000	-2.25570011	0.00000000	0.00000000	-0.35060000	0.00000000
85.	0.00000000	-2.39560008	0.00000000	0.00000000	-0.30559995	0.00000000
90.	0.00000000	-2.40329997	0.00000000	0.00000000	-0.25500000	0.00000000
95.	0.00000000	-2.50160005	0.00000000	0.00000000	-0.19560000	0.00000000
100.	0.00000000	-2.49359999	0.00000000	0.00000000	-0.10510000	0.00000000
105.	0.00000000	-2.44059998	0.00000000	0.00000000	-0.08360000	0.00000000
110.	0.00000000	-2.31960003	0.00000000	0.00000000	-0.08890000	0.00000000
115.	0.00000000	-2.30570006	0.00000000	0.00000000	-0.18860000	0.00000000
120.	0.31670001	-2.19829988	0.00000000	0.00000000	-0.25560001	0.00000000
125.	0.25000001	-2.04600000	0.00000000	0.00000000	-0.20559999	0.00000000
130.	0.24059999	-1.90560005	0.00000000	0.00000000	-0.11560000	0.00000000
135.	0.23960000	-1.59560001	0.00000000	0.00000000	-0.06660000	0.00000000
140.	0.20870000	-1.26830004	0.00000000	0.00000000	-0.05090000	0.00000000
145.	0.21600001	-0.93379998	0.00000000	0.00000000	-0.05120000	0.00000000
150.	0.11670000	-0.57769999	0.00000000	0.00000000	0.08150000	0.00000000
155.	0.02359000	-0.00130000	0.00000000	0.00000000	0.33980000	0.00000000
160.	-0.05760000	-0.10380000	0.00000000	0.00000000	0.59600002	0.00000000
165.	-0.10040000	-0.00240000	0.00000000	0.00000000	0.82169998	0.00000000
170.	-0.00790000	-0.21750000	0.00000000	0.00000000	1.03530002	0.00000000
175.	0.05160000	-0.17749999	0.00000000	0.00000000	1.20969999	0.00000000
180.	0.00000000	0.00000000	0.00000000	0.00000000	1.16470003	0.00000000

ORIGINAL PAGE IS
OF POOR QUALITY

HIGH PERFORMANCE NOZZLE INCREMENT

DREF=145 IN
LREF=1789.6 IN
MRP=.65%LREF (STA 1255.0)

MACH= 1.95
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	-0.04210000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	-0.10560000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	-0.16359999	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	-0.21939999	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.02110000	-0.54000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.05500000	-0.73850001	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.09960000	-1.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.16869999	-1.20559998	0.00000000	0.00000000	-0.04610000	0.00000000
70.	0.26060000	-1.56669998	0.00000000	0.00000000	-0.07390000	0.00000000
75.	0.35560000	-1.80560005	0.00000000	0.00000000	-0.15570000	0.00000000
80.	0.44960001	-2.04559994	0.00000000	0.00000000	-0.26979999	0.00000000
85.	0.50015998	-2.28059991	0.00000000	0.00000000	-0.32359999	0.00000000
90.	0.55559999	-2.32360005	0.00000000	0.00000000	-0.36700001	0.00000000
95.	0.56660001	-2.33560000	0.00000000	0.00000000	-0.37220001	0.00000000
100.	0.53659957	-2.44559998	0.00000000	0.00000000	-0.35060000	0.00000000
105.	0.59549999	-2.44499993	0.00000000	0.00000000	-0.33260000	0.00000000
110.	0.59369999	-2.41659999	0.00000000	0.00000000	-0.30059999	0.00000000
115.	0.55000001	-2.38709998	0.00000000	0.00000000	-0.25060001	0.00000000
120.	0.49970001	-2.30609989	0.00000000	0.00000000	-0.19960000	0.00000000
125.	0.41780000	-2.15549994	0.00000000	0.00000000	-0.04560000	0.00000000
130.	0.35560000	-1.85609996	0.00000000	0.00000000	-0.04610000	0.00000000
135.	0.23999999	-1.39479995	0.00000000	0.00000000	0.00000000	0.00000000
140.	0.26010001	-0.97780001	0.00000000	0.00000000	-0.11870000	0.00000000
145.	0.17990001	-0.34169999	0.00000000	0.00000000	-0.16210000	0.00000000
150.	0.16350000	-0.02840000	0.00000000	0.00000000	0.02510000	0.00000000
155.	0.06410000	-0.20919999	0.00000000	0.00000000	0.37920001	0.00000000
160.	0.05430000	0.12090001	0.00000000	0.00000000	0.59009999	0.00000000
165.	0.01070000	0.19550000	0.00000000	0.00000000	0.86180001	0.00000000
170.	-0.01660000	0.14240000	0.00000000	0.00000000	1.02020001	0.00000000
175.	0.05010000	-0.11110000	0.00000000	0.00000000	1.25209999	0.00000000
180.	0.00000000	0.00000000	0.00000000	0.00000000	1.32930005	0.00000000

ORIGINAL PAGE IS
OF POOR QUALITY

HIGH PERFORMANCE NOZZLE INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 2.5
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	-0.05500000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	-0.12890001	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	-0.21170001	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	-0.34560001	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	-0.51560003	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.04560000	-0.72350002	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.10660000	-0.95960002	0.00000000	0.00000000	-0.00270000	0.00000000
65.	0.19360001	-1.29560006	0.00000000	0.00000000	-0.04990000	0.00000000
70.	0.20060009	-1.55669999	0.00000000	0.00000000	-0.10010000	0.00000000
75.	0.33860001	-1.85960003	0.00000000	0.00000000	-0.14960000	0.00000000
80.	0.40560001	-2.21670008	0.00000000	0.00000000	-0.20060000	0.00000000
85.	0.46609999	-2.55560012	0.00000000	0.00000000	-0.26890001	0.00000000
90.	0.50459999	-2.45659991	0.00000000	0.00000000	-0.25960001	0.00000000
95.	0.55559999	-2.58259995	0.00000000	0.00000000	-0.30660000	0.00000000
100.	0.56059996	-2.49970007	0.00000000	0.00000000	-0.31889999	0.00000000
105.	0.55543997	-2.44390011	0.00000000	0.00000000	-0.34959999	0.00000000
110.	0.50459999	-2.35560012	0.00000000	0.00000000	-0.32370001	0.00000000
115.	0.45559001	-2.21659994	0.00000000	0.00000000	-0.30559999	0.00000000
120.	0.50709999	-2.00259995	0.00000000	0.00000000	-0.25569999	0.00000000
125.	0.45060061	-1.74409996	0.00000000	0.00000000	-0.15560000	0.00000000
130.	0.39569999	-1.49969998	0.00000000	0.00000000	-0.05570000	0.00000000
135.	0.27360001	-1.20060003	0.00000000	0.00000000	0.04390000	0.00000000
140.	0.15390000	-0.78280002	0.00000000	0.00000000	0.10670000	0.00000000
145.	0.03600000	-0.14210001	0.00000000	0.00000000	0.07610000	0.00000000
150.	0.05370000	0.06770000	0.00000000	0.00000000	-0.13890000	0.00000000
155.	0.09550000	-0.14740001	0.00000000	0.00000000	-0.05800000	0.00000000
160.	0.13380000	-0.00570000	0.00000000	0.00000000	0.43630001	0.00000000
165.	0.11550000	0.22850001	0.00000000	0.00000000	0.71439995	0.00000000
170.	0.07220000	0.21060000	0.00000000	0.00000000	0.94230002	0.00000000
175.	0.02750000	-0.03190000	0.00000000	0.00000000	1.16630006	0.00000000
180.	0.00000000	0.00000000	0.00000000	0.00000000	1.35389996	0.00000000
					1.42690003	0.00000000

ORIGINAL PAGE IS
OF POOR QUALITY

FWC Systems Tunnel Increments

FXC SYSTEMS TUNNEL INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.60
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00940000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.01290000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.01520000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.01520000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.01500000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.02490000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.03740000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.05840000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.07510000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.08090000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.05240000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.04990000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.04320000
65.	0.00000000	0.09950000	0.00000000	0.00000000	0.00000000	-0.05230000
70.	0.00000000	0.20850000	0.00000000	0.00000000	0.00000000	-0.02540000
75.	-0.06500000	0.29949999	0.00000000	0.00000000	0.00000000	-0.03510000
80.	-0.14000000	0.34999999	0.00000000	0.03500000	0.00250000	-0.02950000
85.	-0.14500000	0.33300000	-0.07150000	0.22499999	0.00000000	-0.02950000
90.	-0.10500000	0.27000001	-0.19499999	0.50000000	0.00000000	-0.02950000
95.	0.00000000	0.15500000	-0.37000000	0.99000003	0.00000000	-0.02950000
100.	0.24020000	-0.06670000	-0.74360001	1.66299999	-0.02930000	-0.02950001
105.	0.55559999	-0.62419999	-1.20620000	2.54200995	-0.05410000	-0.03510000
110.	0.80229998	-0.55540001	-1.37269998	2.69560003	-0.03940000	-0.02540000
115.	0.72399998	-0.59429997	-1.35109997	1.94110100	0.01670000	-0.05230002
120.	0.23590000	-0.69700001	-2.00710011	-2.17429996	0.07190000	-0.04320000
125.	0.17470001	-1.54639995	-2.79329991	-3.57049990	0.09820000	-0.04990000
130.	0.07599999	-2.64219999	-3.38369989	-4.21659994	0.07040000	-0.05240000
135.	2.23749995	-0.02880000	-2.60360003	-4.05000019	0.04430000	-0.06090003
140.	1.98740005	1.45710003	-2.66389990	-3.79010010	0.01460000	-0.07510000
145.	1.64470005	1.67019999	-1.60029995	-1.52149999	0.01150000	-0.05840003
150.	1.07179999	0.95609999	-1.68050003	-0.76080002	0.01390000	-0.03740000
155.	0.78320003	0.69199997	-1.39230001	-0.39730000	0.00800000	-0.02490002
160.	0.60159999	1.01779997	-0.23909999	-0.21259001	-0.01070000	-0.01500000
165.	0.30379999	0.64450002	-0.05940000	-0.19080009	0.00430000	-0.01520000
170.	0.09200000	0.18769999	-0.02030000	0.04520000	-0.01460002	-0.01520000
175.	0.00230000	0.00860000	-0.00980000	0.02490000	-0.00490000	-0.01290000
180.	-0.01120000	-0.01710000	0.00320000	0.02930002	-0.00310000	-0.00940000

FWC SYSTEMS TUNNEL INCREMENT

DREF=146 IN
LREF=1769.6 IN
MRP=.55*LREF (STA 1255.5)

MACH= 0.60
PHI= 45.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00750000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.02920000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.05630000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.08340000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.06550000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.10450000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.13669999
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.15220000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.15950000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.16279999
65.	-0.03500000	-0.04950000	0.09350000	0.65249997	0.00000000	-0.20220000
70.	-0.10000000	-0.12800001	0.32499999	0.89999998	0.00000000	-0.21610001
75.	-0.20810000	-0.24500000	0.94999999	1.17999995	0.00000000	-0.22220001
80.	-0.32749999	-0.36000001	1.64499998	1.57000005	0.00000000	-0.23649999
85.	-0.45500001	-0.50000000	2.10500002	1.98499997	0.00000000	-0.23700000
90.	-0.73500001	-0.68000000	2.40000010	2.24950004	0.00050000	-0.23660000
95.	-0.85000002	-0.67500001	2.55500007	2.57499996	-0.04950000	-0.23210000
100.	-0.87750000	-0.74999999	2.63159990	2.98000010	-0.13160001	-0.23649999
105.	-0.79509997	-0.82350000	2.51709999	3.26000005	-0.21990000	-0.22220001
110.	-0.94970000	-1.43520000	2.13549995	3.36610007	-0.14500000	-0.21610000
115.	-0.78579998	-1.49829996	1.92190003	3.57430005	-0.07960000	-0.20220000
120.	-0.72880000	-1.65910006	0.62099999	4.21320009	-0.08130000	-0.18279999
125.	-1.25750005	-2.94199991	-1.43729997	4.34369993	0.01110000	-0.15950000
130.	-0.64880002	-3.33109999	-1.05830002	3.96230006	0.00770000	-0.15220000
135.	0.30720001	-0.89529997	-1.95229995	-1.83440006	0.02180000	-0.13669999
140.	0.41949999	0.44729999	-1.19180000	-2.15179992	0.01620000	-0.10450000
145.	0.19130000	0.22229999	-0.58539997	-0.55949998	0.00170000	-0.08580000
150.	0.07380000	0.07260000	-0.50540000	-0.38519999	0.01170000	-0.06340000
155.	0.06500000	-0.00899000	-0.55570000	-0.64170003	-0.01150000	-0.05030000
160.	0.04460000	0.01100000	-0.43059999	-0.60810000	-0.00510000	-0.02920000
165.	0.00660000	0.00540000	-0.01540000	-0.08020000	-0.00470000	-0.00750000
170.	0.00849000	-0.01980000	0.03490000	0.00340000	-0.00700000	0.00300000
175.	-0.00120000	-0.01590000	0.00270000	0.02870000	-0.01090000	0.00160000
180.	-0.00900000	-0.05130000	0.00620000	-0.00930000	-0.01190000	0.00850000

ORIGINAL PAGE IS
OF POOR QUALITY

FWD SYSTEMS TUNNEL INCREMENT

SREF=14E IN
LREF=1709.6 IN
MRP=.59%LREF (STA 1250.0)

MACH= 0.60
ALT= 0K.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.01050000
5.	0.01700000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00820000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00700000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00570000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.01070000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00340000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.01280000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00510000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.01090000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.01740000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.01930000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.01600000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00960000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.01180000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.01750000
75.	0.00000000	0.00000000	0.00000000	-0.00000000	0.00000000	0.00790000
80.	0.00000000	0.00000000	0.00000000	-0.00000000	0.00000000	0.00930000
85.	0.00000000	0.05000000	-0.05010000	-0.18950000	0.00000000	0.00990000
90.	0.00000000	0.14399999	-0.09950000	-0.29949999	0.00500000	0.00910000
95.	0.00000000	0.20750000	-0.14950000	-0.37149999	0.00750000	0.00530000
100.	-0.07600000	0.20599999	-0.16190000	-0.41949999	-0.04650000	0.00920000
105.	-0.13110000	0.00100000	-0.03110000	-0.37880000	-0.01170000	0.00790000
110.	0.11240000	0.32000000	0.06020000	0.50070000	-0.04650000	0.01750000
115.	0.01520000	0.30550000	0.01500000	-1.31180000	-0.11440000	0.01100000
120.	-0.02250000	0.19149999	-0.08250000	-2.17429996	-0.18610001	0.00960000
125.	-1.70249999	-3.45630007	0.33610001	-0.57889998	-0.15549999	0.01600000
130.	-2.70219994	-4.75000000	0.12809999	0.99730003	-0.10940000	0.01930000
135.	-0.67100000	-2.22979999	0.29449999	0.95620000	-0.02090000	0.01740000
140.	0.02310000	-0.00120000	0.08630000	0.02560000	0.00670000	-0.01090000
145.	-0.00250000	-0.03730000	0.07800000	-0.07450000	0.00510000	0.00510000
150.	-0.01200000	0.01160000	0.01190000	0.05920000	0.00470000	0.01280000
155.	0.02490000	0.05590000	-0.03820000	0.04980000	-0.00840000	-0.00340000
160.	-0.02920000	0.01960000	-0.04710000	-0.13140000	-0.01150000	-0.01070000
165.	-0.03000000	-0.01100000	-0.01610000	0.00190000	0.00000000	-0.00970000
170.	-0.02120000	-0.02240000	0.00680000	0.02630000	-0.00680000	-0.00780000
175.	-0.02120000	-0.00440000	-0.00880000	0.02060000	0.00010000	-0.00820000
180.	-0.02130000	-0.03510000	0.00590000	-0.01690000	0.00030000	-0.01050000

BEST AVAILABLE COPY

FWC SYSTEMS TUNNEL INCREMENT

DREF=146 IN
LREF=1769.6 IN
MRP=.59*LREF (STA 1235.9)

MACH= 0.99
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00340000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00100000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00870000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.01790000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.02650000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.02810000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.04770000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.06920000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.07370000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.08080000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.09180000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.07590000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.05480000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.05510000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.04350000
75.	0.00000000	0.00000000	-0.00650000	0.00000000	0.00000000	-0.04150000
80.	0.00000000	0.00000000	-0.05500000	0.00270000	0.00000000	-0.03820000
85.	0.00000000	-0.04950000	-0.12450000	0.09950000	0.00000000	-0.03330000
90.	0.00000000	-0.09500000	-0.20500000	0.19850001	0.00000000	-0.03320000
95.	0.02500000	-0.18500000	-0.30649999	0.34850001	0.00000000	-0.04020000
100.	0.03960000	-0.33700000	-0.47029999	0.57639998	0.02360000	-0.03820000
105.	0.05260000	-0.44790000	-0.54780000	0.76959997	0.04340000	-0.04150000
110.	-0.00030000	-0.53640002	-0.59109998	0.73299998	0.04860000	-0.04350000
115.	0.03490000	-0.60949999	-0.63040000	0.63239998	0.04630000	-0.05510000
120.	-0.04750000	-0.51849997	-0.71950001	-0.06970000	0.05020000	-0.05480000
125.	0.22780000	-0.52869999	-1.50489998	-1.31649995	0.05600000	-0.07590000
130.	0.60909998	-0.34290001	-2.10190010	-2.21980000	0.04280000	-0.09180000
135.	0.54850000	-0.49720001	-1.90400004	-2.17529988	0.04520000	-0.08080000
140.	0.41160000	-0.46980000	-2.06629992	-2.61260009	0.01560000	-0.07370000
145.	0.78390002	0.03040000	-1.48090005	-1.74240005	0.01100000	-0.06920000
150.	0.95029998	0.72359997	-1.22449994	-0.33840001	0.00440000	-0.04770000
155.	0.71759999	0.78029998	-0.79229999	0.36269999	0.01230000	-0.02810000
160.	0.50300002	0.72359997	-0.73180002	-1.00080000	0.00490000	-0.02650000
165.	0.33199999	0.57340002	-0.30030000	-0.58289999	0.02280000	-0.01790000
170.	0.10230000	0.25660000	-0.02750000	0.01820000	0.02260000	-0.00870000
175.	0.02620000	0.07120000	-0.00250000	0.07940000	0.01360000	-0.00100000
180.	-0.00410000	0.01620000	0.00330000	0.01140000	0.00360000	-0.00340000

ORIGINAL PAGE IS
OF POOR QUALITY

FWC SYSTEMS TUNNEL INCREMENT

MACH= 0.[illegible]
[illegible]

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

ALFHA	CN	CL	CY	CYM	CA	CR
0.	0.00000000	0.[illegible]0000	0.00000000	0.[illegible]0000000	0.00000000	0.0117000[illegible]
5.	0.00[illegible]	0.[illegible]000	0.00000000	0.[illegible]0000000	0.00000000	0.00[illegible]
10.	0.0000000	[illegible]	0.00000000	0.[illegible]0000000	0.00000000	-0.00730000
15.	0.2[illegible]	0.[illegible]000	0.00000000	0.[illegible]0000000	0.00000000	-0.01890000
20.	0.00000[illegible]	0.[illegible]000	0.00000000	0.[illegible]0000000	0.00000000	-0.0299[illegible]
25.	0.00000000	0.[illegible]000	0.00000000	0.[illegible]0000000	0.00000000	-0.04750000
30.	0.00000000	0.[illegible]000	0.00000000	0.[illegible]0000000	0.00000000	-0.07420000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.09490000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.11800000
45.	0.00000000	0.00000000	0.00470000	0.00000000	0.00000000	-0.12440000
50.	0.00000000	0.00000000	0.09350000	0.00000000	0.00000000	-0.14410000
55.	0.00000000	0.00000000	0.20500000	0.10500000	0.00000000	-0.16590000
60.	0.00000000	0.00000000	0.41499999	0.37349999	0.00000000	-0.17659999
65.	0.00000000	0.09350000	0.66700000	0.66500001	0.00000000	-0.19220001
70.	0.00000000	0.[illegible]0000	0.90499997	1.[illegible]5500002	0.00000000	-0.20620000
75.	0.00000000	0.37149999	1.16499996	1.[illegible]3699998	0.00000000	-0.21590000
80.	0.00000000	0.58350003	1.47500002	2.[illegible]5150002	0.00000000	-0.22200000
85.	-0.01500000	0.66499998	1.65499997	2.[illegible]6500004	0.00000000	-0.22499999
90.	-0.07350000	0.66659999	1.74349999	2.[illegible]4849997	0.00000000	-0.22610000
95.	-0.10650001	0.55650002	1.79499996	2.[illegible]3699999	-0.00370000	-0.22499999
100.	-0.33190000	0.34099999	1.77810001	2.[illegible]4970012	-0.04570000	-0.22200000
105.	-0.42860001	-0.27579999	1.69780004	2.[illegible]1289995	-0.01120000	-0.21590000
110.	-0.3[illegible]740001	-0.52[illegible]9998	1.63689995	2.[illegible]2879992	-0.01920000	-0.20620000
115.	-0.31110001	-0.44139999	1.51320004	2.[illegible]4753994	-0.02680000	-0.19220001
120.	-0.45910001	-0.58099997	1.39279997	2.[illegible]9640002	-0.02550000	-0.17[illegible]59999
125.	-0.46500002	-0.[illegible]5779998	0.64620000	0.[illegible]1440001	-0.02000000	-0.16590001
130.	-0.38509999	-0.64740002	0.33109999	0.[illegible]2849999	-0.00470000	-0.14410000
135.	-0.22720000	-0.54619997	0.05340000	-0.[illegible]4980000	0.01560000	-0.12440000
140.	-0.16460000	-0.53340000	-0.42280000	-0.[illegible]7239999	-0.00970000	-0.11800000
145.	0.23559999	0.28439999	-0.45130000	-0.[illegible]4790000	-0.04840000	-0.09490000
150.	0.05250000	0.04620000	-0.23940000	-0.[illegible]6420000	-0.02520000	-0.07420000
155.	0.04350000	0.00570000	-0.34779999	-0.[illegible]3430001	-0.02850000	-0.04750000
160.	0.02730000	-0.09040000	-0.08420000	-0.[illegible]4790000	-0.02800000	-0.02990000
165.	0.00930000	-0.04420000	-0.02150000	0.[illegible]0350000	0.00920000	-0.01890000
170.	0.00510000	-0.04640000	0.03190000	0.[illegible]3580000	-0.00160000	-0.00730000
175.	-0.00660000	-0.02850000	0.01930000	0.[illegible]0510000	0.00560000	0.00010000
180.	0.00040000	-0.00640000	-0.00700000	0.[illegible]2780000	0.00730000	0.01170000

ORIGINAL PAGE IS
OF POOR QUALITY

FWD SYSTEMS TUNNEL INCREMENT

DREF=145 IN
LREF=1709.6 IN
MRP=.5[illegible]LREF (STA 1335.0)

ALPHA	CN	CM	CY	CYM	CA	CA
0.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
165.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
170.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
175.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
180.	-0.00520000	-0.03430000	-0.01060000	-0.01240000	-0.01280000	-0.00250000

DREF=143 IN
LREF=1799.6 IN
MRP=.55*LREF (STA 1255.9)

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00040001
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00020000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00080000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00080000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00080000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00080000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00080000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00080000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00080000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00080000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00080000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00080000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00080000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00080000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00080000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00080000
80.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00080000
85.	0.00000000	0.00000000	-0.10000000	0.00000000	0.00000000	-0.00080000
90.	0.00000000	0.00000000	-0.15000001	0.00000000	0.00000000	-0.00080000
95.	0.00000000	0.00000000	-0.20000000	0.00000000	0.00000000	-0.00080000
100.	0.07650000	-0.02350000	-0.30000001	0.00000000	0.00000000	-0.00080000
105.	0.16150001	-0.21150000	-0.40000001	0.00000000	0.00000000	-0.00080000
110.	0.23450001	-0.36350001	-0.50000000	-0.03000000	0.00000000	-0.00080000
115.	0.27849999	-0.66649997	-0.62000000	-0.09000000	0.00000000	-0.00080000
120.	0.25290000	-0.63819999	-0.75000000	-0.23000000	0.00000000	-0.00080000
125.	0.21500000	-1.01160002	-0.90439999	-0.52109998	0.00000000	-0.00080000
130.	0.47200000	-0.55049998	-1.09860000	-1.04260004	0.00000000	-0.00080000
135.	0.68649999	0.00650000	-1.19700003	-1.01610002	0.00000000	-0.00080000
140.	0.71539998	0.51419997	-1.28999996	-0.91570002	0.00000000	-0.00080000
145.	0.64630002	0.68839997	-1.08430004	-0.94700003	0.00000000	-0.00080000
150.	0.60369998	0.61420000	-0.92510003	-0.63440001	0.00000000	-0.00080000
155.	0.51620002	0.53579998	-0.96520001	-0.83550998	0.00000000	-0.00080000
160.	0.53689998	0.47569999	-0.79699999	-0.14680000	0.00000000	-0.00080000
165.	0.37009999	0.47819999	-0.36230001	0.81010002	0.00000000	-0.00080000
170.	0.14210001	0.26260000	-0.25279999	-0.24530000	0.00000000	-0.00080000
175.	0.01980000	-0.03770000	0.03530000	0.19980000	0.00000000	-0.00080000
180.	0.01100000	-0.00440000	0.00410000	0.09800000	0.00000000	0.00020000
			-0.00040000	0.02230000	0.00000000	0.00040000

ORIGINAL PAGE IS
OF POOR QUALITY

CWC SYSTEMS TUNNEL INCREMENT

DREF=146 IN
LREF=1769.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.10
PHI= 45.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00370000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.01090000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.01440000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.03180000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.03590000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.05540000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.07500000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.06780000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.05760000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.12050000
50.	0.00000000	0.00000000	0.02000000	0.00000000	0.00000000	-0.13710000
55.	0.00000000	0.00000000	0.05050000	0.10450000	0.00000000	-0.15099999
60.	0.00000000	0.00000000	0.10500000	0.26600000	0.00000000	-0.16540000
65.	0.00000000	0.00000000	0.18900000	0.45500001	0.00000000	-0.17010000
70.	0.00000000	0.00000000	0.30500001	0.65499997	0.00000000	-0.18700001
75.	0.00000000	0.00000000	0.43750000	0.85499996	0.00000000	-0.19499999
80.	0.00000000	0.00000000	0.61500001	1.07249999	0.00000000	-0.20010000
85.	0.00000000	0.06150000	0.83149999	1.24950004	0.00000000	-0.20130000
90.	0.00000000	0.12150000	0.98650002	1.39499998	0.00000000	-0.20270000
95.	0.00000000	0.20050000	1.09449995	1.54499996	0.00000000	-0.20130000
100.	0.00000000	0.26749999	1.13000000	1.60500002	0.00000000	-0.20010000
105.	0.04350000	0.25949999	1.15050006	1.61549999	0.00000000	-0.19499999
110.	0.08050000	0.27149999	1.09850001	1.59500003	0.00000000	-0.18700001
115.	0.04950000	0.17850000	1.01150000	1.49579997	0.00000000	-0.17010000
120.	-0.08600000	-0.01850000	0.86870003	1.30450000	0.00000000	-0.16540000
125.	-0.29380000	-0.60039997	0.71259999	1.06840003	0.00000000	-0.15099999
130.	-0.27219999	-0.60549998	0.59130001	0.99870002	0.00000000	-0.13710000
135.	-0.19530000	-0.45030001	0.46599999	0.84509999	0.00000000	-0.12050000
140.	-0.16949999	-0.24270000	0.35749999	0.68470001	0.00000000	-0.09760000
145.	-0.12120000	-0.32810000	0.34680000	0.29570001	0.00000000	-0.08780000
150.	-0.02530000	-0.05620000	0.36550000	0.09740000	0.00000000	-0.07580000
155.	-0.00020000	-0.00780000	0.24120000	0.32620001	0.00000000	-0.05340000
160.	0.00790000	-0.00960000	0.23330000	0.16790000	0.00000000	-0.03990000
165.	0.00540000	0.18770000	0.13710000	0.40490001	0.00000000	-0.03180000
170.	0.01750000	0.24869999	0.14669999	0.14650001	0.00000000	-0.01440000
175.	0.02990000	0.09840000	0.02970000	0.03290000	0.00000000	-0.01090000
180.	0.03540000	0.16390000	0.01870000	0.12490000	0.00000000	-0.00370000

ORIGINAL PAGE IS
OF POOR QUALITY

FWD SYSTEM TUNNEL INCREMENT

DREF=145 IN
LREF=1789.6 IN
MRP=.58*LREF (STA 1255.9)

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00090000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00310000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00230000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00210000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00010000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00370000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00260000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00890000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.01070000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00890000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.01290000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.01530000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.01070000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.01100000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.01270000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.01090000
80.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.01000000
85.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00910000
90.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.01100000
95.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00910000
100.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.01000000
105.	0.00000000	0.05500000	0.00000000	0.00000000	0.00000000	0.01090000
110.	0.00000000	0.08000000	0.00000000	0.00000000	0.00000000	0.01270000
115.	0.00000000	0.08500000	0.00000000	0.00000000	0.00000000	0.01100000
120.	0.00000000	0.06000000	0.00820000	-0.00510000	0.00000000	0.01070000
125.	-0.05560000	0.00000000	0.02750000	-0.01140000	0.00000000	0.01530000
130.	-0.07040000	-0.11370000	0.02150000	-0.01340000	0.00000000	0.01290000
135.	-0.01850000	0.04390000	0.04700000	-0.06120000	0.00000000	0.00890000
140.	-0.07020000	0.00640000	0.03230000	-0.03620000	0.00000000	0.01070000
145.	-0.04910000	0.04300000	-0.00100000	0.01370000	0.00000000	0.00890000
150.	-0.03730000	0.02590000	0.02960000	0.00610000	0.00000000	0.00280000
155.	-0.03780000	-0.02110000	-0.00140000	0.03350000	0.00000000	0.00370000
160.	-0.01900000	-0.00360000	-0.01940000	-0.02210000	0.00000000	-0.00010000
165.	-0.02170000	-0.04190000	-0.01300000	0.03400000	0.00000000	0.00210000
170.	-0.01610000	-0.01130000	0.00030000	-0.03090000	0.00000000	-0.00230000
175.	-0.01160000	-0.07710000	0.00860000	0.06630000	0.00000000	-0.00310000
180.	-0.00810000	-0.06090000	-0.00390000	0.02520000	0.00000000	0.00090000

ORIGINAL PAGE IS
OF POOR QUALITY

FWD SYSTEMS TUNNEL INCREMENT

DREF=145 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.30
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00140000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00040000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00210000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00460000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00790000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.01190000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.01660000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.02190000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.02790000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.03460000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.04190000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.04990000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.05860000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.06790000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.07790000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.08860000
80.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.09990000
85.	0.00000000	-0.04000000	0.00000000	0.00000000	0.00000000	-0.11190000
90.	0.00000000	-0.10000000	-0.00270000	-0.04500000	0.00000000	-0.12460000
95.	0.00000000	-0.13000000	-0.05500000	-0.08010000	0.00000000	-0.13790000
100.	0.00000000	-0.22000000	-0.15500000	-0.14500000	0.00000000	-0.15190000
105.	0.00000000	-0.25000000	-0.26600000	-0.24500000	0.00000000	-0.14470000
110.	0.07000000	-0.23000000	-0.45500001	-0.34500000	0.00000000	-0.14410000
115.	0.15000001	-0.17000000	-0.61500001	-0.54000002	0.00000000	-0.13500000
120.	0.25000000	-0.10000000	-0.86669999	-0.76560003	0.00000000	-0.13100000
125.	0.35780001	-0.06920000	-1.00199997	-1.01850004	0.00000000	-0.12310000
130.	0.42370000	0.03690000	-1.03139997	-1.01919997	0.00000000	-0.11950000
135.	0.52130002	0.14229999	-0.91439998	-0.95879999	0.00000000	-0.11120000
140.	0.65200001	0.29949999	-0.83190000	-0.95469999	0.00000000	-0.09580000
145.	0.53369999	0.37950000	-0.86449999	-0.68239999	0.00000000	-0.07490000
150.	0.46060000	0.36460000	-0.89120001	-0.41620001	0.00000000	-0.05470000
155.	0.41089999	0.36149999	-0.68190002	-0.56520001	0.00000000	-0.03660000
160.	0.39219999	0.52060002	0.17440000	0.85560000	0.00000000	-0.01960000
165.	0.29769999	0.40120000	0.00410000	0.13360000	0.00000000	-0.02070000
170.	0.12140000	0.29269999	-0.02000000	0.05650000	0.00000000	-0.01210000
175.	0.02260000	0.06110000	0.00160000	0.07060000	0.00000000	-0.00040000
180.	0.00330000	0.02810000	0.00210000	0.03640000	0.00000000	0.00140000

ORIGINAL PAGE IS
OF POOR QUALITY

RWC SYSTEMS TUNNEL INCREMENT

DREF=146 IN
LREF=1799.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.30
PHI= 45.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00590000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00950000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.01520000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.02450000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.03650000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.04700000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.06460000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.07820000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.09570000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.11430000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.12610000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.14309999
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.15840000
65.	0.00000000	0.00000000	0.09000000	0.00000000	0.00000000	-0.16930000
70.	0.00000000	0.00000000	0.20500000	0.05600000	0.00000000	-0.17900001
75.	0.00000000	0.00000000	0.31600001	0.15400000	0.00000000	-0.18300000
80.	0.00000000	0.00000000	0.45649999	0.30500001	0.00000000	-0.18900000
85.	0.00000000	0.00000000	0.60500002	0.48500001	0.00000000	-0.19599999
90.	-0.06500000	-0.02490000	0.75500000	0.65499997	0.00000000	-0.20000000
95.	-0.16650000	-0.09550000	0.85000002	0.80049998	0.00000000	-0.19599999
100.	-0.28500000	-0.20500000	0.91000003	0.93500000	0.00000000	-0.18900000
105.	-0.33999999	-0.30500001	0.9900001	1.04499996	0.00000000	-0.18300000
110.	-0.34500000	-0.39350000	0.97299999	1.09500003	0.00000000	-0.17900001
115.	-0.32499999	-0.47000000	0.94499999	1.11549997	0.00000000	-0.16930000
120.	-0.30599999	-0.48500001	0.89499998	1.11699998	0.00000000	-0.15840000
125.	-0.25690001	-0.42710000	0.79970002	1.11759996	0.00000000	-0.14309999
130.	-0.16580001	-0.36960000	0.68900001	1.07050002	0.00000000	-0.12610000
135.	-0.14180000	-0.30140001	0.54949999	0.89279997	0.00000000	-0.11430000
140.	-0.15330000	-0.32130000	0.44200000	0.74940002	0.00000000	-0.09570000
145.	-0.10020000	-0.39179999	0.37529999	0.63300002	0.00000000	-0.07820000
150.	-0.08710000	-0.28459999	0.25330001	0.44049999	0.00000000	-0.06460000
155.	-0.06470000	-0.25360000	0.20469999	0.28090000	0.00000000	-0.04700000
160.	-0.00470000	-0.21280000	0.15750000	0.30899999	0.00000000	-0.03650000
165.	0.00840000	-0.17910001	0.13580000	0.25819999	0.00000000	-0.02450000
170.	-0.00610000	0.02990000	0.05040000	0.17440000	0.00000000	-0.01520000
175.	-0.00380000	-0.03210000	0.02250000	0.11860000	0.00000000	-0.00950000
180.	-0.00730000	-0.06450000	0.00930000	0.03840000	0.00000000	-0.00590000
		-0.00670000	0.00010000	0.03460000		

ORIGINAL PAGE IS OF POOR QUALITY

FWC SYSTEMS TUNNEL INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.30
PHI= 90.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
85.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
90.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
95.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
100.	-0.04950000	-0.04900000	0.00000000	0.00000000	0.00000000	0.00000000
105.	-0.10500000	-0.13500001	0.00000000	0.00000000	0.00000000	0.00000000
110.	-0.15000001	-0.20250000	0.00000000	0.00000000	0.00000000	0.00000000
115.	-0.14500000	-0.20600000	0.00000000	0.00000000	0.00000000	0.00000000
120.	-0.12010000	-0.16850001	0.01200000	-0.01750000	0.00000000	0.00650000
125.	-0.02800000	-0.01560000	0.00430000	-0.01660000	0.00000000	0.00560000
130.	-0.05440000	-0.11540000	0.02070000	-0.02040000	0.00000000	-0.00050000
135.	-0.01970000	-0.04660000	0.02680000	-0.01570000	0.00000000	0.00190000
140.	-0.04940000	-0.03190000	-0.03120000	-0.01030000	0.00000000	0.00470000
145.	-0.01840000	0.00190000	0.00160000	0.07920000	0.00000000	0.00100000
150.	-0.04750000	-0.08720000	0.04960000	0.00910000	0.00000000	0.00260000
155.	-0.02910000	-0.07160000	0.03970000	0.09910000	0.00000000	0.01030000
160.	-0.03690000	-0.05400000	0.05550000	0.06460000	0.00000000	0.00460000
165.	-0.01130000	0.02510000	-0.00140000	0.04110000	0.00000000	0.00590000
170.	0.00010000	0.02850000	-0.02090000	0.02680000	0.00000000	0.00520000
175.	-0.00700000	-0.03660000	0.00570000	0.01890000	0.00000000	0.00140000
180.	-0.01320000	-0.03160000	0.00570000	0.02350000	0.00000000	

FWC SYSTEMS TUNNEL INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 2.99
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00750000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00750000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00950000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.01450000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.01880000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.02750000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.03140000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.03990000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.04530000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.04760000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.05100000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.05670000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.05990000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.06100000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.06470000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.06990000
80.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.07010000
85.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.07670000
90.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.07900000
95.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.07670000
100.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.07010000
105.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.06990000
110.	0.00000000	0.00000000	-0.00370000	0.00000000	0.00000000	-0.06470000
115.	0.00000000	0.00000000	-0.04500000	0.00000000	0.00000000	-0.06100000
120.	0.05500000	0.05250000	-0.06050000	-0.01500000	0.00000000	-0.05990000
125.	0.09300000	0.08000000	-0.10000000	-0.05650000	0.00000000	-0.05870000
130.	0.10500000	0.11000000	-0.11350000	-0.09500000	0.00000000	-0.05100000
135.	0.16650000	0.14500000	-0.14350000	-0.11150000	0.00000000	-0.04760000
140.	0.12630001	0.14390001	-0.16450000	-0.14290000	0.00000000	-0.04530000
145.	0.09900000	0.10810000	-0.14000000	-0.13620000	0.00000000	-0.03990000
150.	0.08060000	0.04610000	-0.13150001	-0.13730000	0.00000000	-0.03140000
155.	0.09060000	0.08530000	-0.14560001	-0.13830000	0.00000000	-0.02750000
160.	0.00110000	-0.00210000	0.01120000	-0.13710000	0.00000000	-0.01880000
165.	0.06760000	0.04760000	0.03490000	0.02230000	0.00000000	-0.01480000
170.	0.04380000	0.09760000	-0.00120000	-0.01900000	0.00000000	-0.00950000
175.	0.01370000	0.02910000	-0.00370000	-0.00100000	0.00000000	-0.00750000
180.	-0.00800000	0.00780000	0.00440000	0.00590000	0.00000000	-0.00090000

FWC SYSTEMS TUNNEL INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 2.99
PHI= 45.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00510000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00670000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.01360000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.01890000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.02560000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.02990000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.04200000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.06280000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.07700000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.09450000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.10270000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.11520000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.12670000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.13450000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.14770000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.15000001
80.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.15200000
85.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.15470000
90.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.15899999
95.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.15470000
100.	0.00000000	0.00000000	0.07500000	0.00000000	0.00000000	-0.15200001
105.	0.00000000	0.00000000	0.15000001	0.06450000	0.00000000	-0.15000001
110.	0.00000000	0.00000000	0.24349999	0.14500000	0.00000000	-0.14770000
115.	0.00000000	-0.02500000	0.30250001	0.24500000	0.00000000	-0.13450000
120.	0.00000000	-0.09950000	0.34500000	0.30500001	0.00000000	-0.12670000
125.	0.00000000	-0.10650000	0.35010001	0.35499999	0.00000000	-0.11520000
130.	0.00000000	-0.13500001	0.34990001	0.39500001	0.00000000	-0.10270000
135.	0.00000000	-0.16500001	0.33350000	0.39500001	0.00000000	-0.09450000
140.	-0.04630000	-0.20600000	0.27919999	0.37689999	0.00000000	-0.07700000
145.	-0.05360000	-0.16920000	0.22990000	0.31619999	0.00000000	-0.06280000
150.	-0.05160000	-0.15420000	0.16599999	0.23430000	0.00000000	-0.04200000
155.	-0.02960000	-0.10630000	0.09400000	0.14520000	0.00000000	-0.02990000
160.	-0.03970000	-0.05970000	0.06180000	0.11410000	0.00000000	-0.02560000
165.	-0.00820000	-0.02210000	0.05370000	0.13020000	0.00000000	-0.01890000
170.	-0.00460000	-0.01800000	-0.00270000	0.00550000	0.00000000	-0.01360000
175.	-0.01240000	-0.01030000	0.00000000	0.00380000	0.00000000	-0.00670000
180.	-0.00800000	-0.00920000	-0.00380000	0.00550000	0.00000000	-0.00510000

FWC SYSTEMS TUNNEL INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 2.95
PHI= 9E.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
85.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
90.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
95.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
100.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
105.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
110.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
115.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
120.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
125.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
130.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
135.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
140.	-0.00320000	-0.01190000	-0.00130000	-0.01740000	0.00900000	0.00900000
145.	-0.00340000	0.01040000	0.00630000	-0.00620000	0.00000000	0.01700000
150.	-0.00830000	0.01270000	0.00000000	-0.00130000	0.00000000	0.01380000
155.	-0.00420000	0.01480000	-0.00360000	0.00870000	0.00000000	0.00800000
160.	-0.02500000	-0.02630000	-0.00170000	0.00510000	0.00000000	0.00520000
165.	-0.00230000	0.00580000	0.00960000	0.06260000	0.00000000	0.00110000
170.	-0.00850000	-0.00050000	0.00490000	0.02840000	0.00000000	0.00190000
175.	-0.00200000	0.00710000	-0.00540000	0.01070000	0.00000000	-0.00210000
180.	-0.00080000	-0.00980000	-0.00420000	0.02250000	0.00000000	0.00130000

Steel Case Systems Tunnel Increments

LOCKHEED-HUNTSVILLE ENGINEERING CENTER

STEEL CASE SYSTEMS TUNNEL INCREMENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.60
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00090000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00180000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.01070000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.01270000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.02360000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.02680000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.04470000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.06040000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.07280000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.07360000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.07660000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.06670000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.05380000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.07390000
70.	0.00000000	0.00000000	-0.00300000	0.00000000	0.00000000	-0.05330000
75.	0.00000000	0.00000000	-0.07500000	0.05000000	0.00000000	-0.05890000
80.	0.00000000	0.00000000	-0.19000000	0.19499999	0.00000000	-0.04990000
85.	0.00000000	-0.00300000	-0.37500000	0.31999999	0.00000000	-0.04990000
90.	0.00000000	-0.10000000	-0.60000002	0.61000001	0.00000000	-0.04990000
95.	0.10000003	-0.30000001	-0.81999999	1.00000000	0.00000000	-0.04990000
100.	0.30300003	-0.64770001	-1.28079998	1.60150003	-0.01350000	-0.04990000
105.	0.63690003	-1.03260005	-1.75999999	2.48259997	-0.05570000	-0.05690000
110.	0.92570001	-0.88049998	-2.03160000	2.40540004	-0.05310000	-0.05530000
115.	0.89510000	-0.98790002	-2.43490005	1.35580005	-0.00200000	-0.07390000
120.	0.44560000	-1.17229998	-2.98230004	-2.57489991	0.06060000	-0.05380000
125.	0.37220001	-2.08850003	-3.53500009	-4.00199586	0.09240000	-0.06670000
130.	1.15050006	-3.36299992	-3.58999991	-4.26999998	0.06090000	-0.07660000
135.	2.28749990	0.38330001	-3.42499995	-4.03999996	0.03930000	-0.07360000
140.	2.06089997	1.56270003	-3.22720003	-3.76259995	0.01330000	-0.07280000
145.	1.55970001	1.46679997	-2.34870005	-2.24169993	0.01110000	-0.06040000
150.	1.17400002	1.00000000	-2.13210011	-1.79999995	0.00200000	-0.04470000
155.	0.91189996	0.85409999	-1.00720000	-1.39160005	0.02010000	-0.02680000
160.	0.69329999	1.69940004	-0.19120000	-0.62210000	0.00940000	-0.02360000
165.	0.40430000	0.77179998	-0.06150000	-0.19030000	0.02470000	-0.01270000
170.	0.14350000	0.29100001	0.00110000	0.09550000	0.01710000	-0.01070000
175.	0.02250000	0.06680000	-0.01560000	0.03890000	0.01440000	0.00180000
180.	0.01240000	0.04250000	-0.01270000	0.00950000	0.01560000	0.00090000

ORIGINAL PAGE IS
OF POOR QUALITY

STEEL CASE SYSTEMS TUNNEL INCREMENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.60
PHI= 45.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00230000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00010000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.01530000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.01500000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.03670000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.07160000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.10420000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.12570000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.13970000
45.	-0.00100000	0.00000000	0.00000000	0.05000000	0.00000000	-0.15700001
50.	-0.05000000	0.00000000	0.00000000	0.13000000	0.00000000	-0.18979999
55.	-0.10000000	0.00000000	0.04000000	0.40000001	0.00000000	-0.21619999
60.	-0.20000000	0.00000000	0.28000000	0.92000002	0.00000000	-0.25979999
65.	-0.30000001	0.00000000	1.00000000	1.50000000	0.00000000	-0.29359999
70.	-0.44999999	0.00000000	1.79999995	2.00000000	0.00000000	-0.31840000
75.	-0.55000001	0.00000000	2.40000010	2.65000010	0.00000000	-0.33939999
80.	-0.60999999	-0.04000000	2.90000010	3.23000002	0.00000000	-0.34900001
85.	-0.80000001	-0.05000000	3.16843995	3.77999997	0.00000000	-0.35000001
90.	-0.89999998	-0.15000001	3.33369994	4.11999989	0.00000000	-0.37000000
95.	-0.94999999	-0.31999999	3.40000010	4.44999981	-0.05000000	-0.36000001
100.	-0.98430001	-0.48400001	3.33369994	4.71180010	-0.12300000	-0.35360000
105.	-0.99180001	-0.73999001	3.16840995	4.75890017	-0.16910000	-0.33939999
110.	-1.05079997	-1.17200398	2.78839993	4.45459966	-0.11090000	-0.31840000
115.	-0.95420003	-1.45729996	2.48550998	4.65189981	-0.06680000	-0.29359999
120.	-1.00680005	-1.86950004	1.46410000	5.42770004	-0.05120000	-0.25979999
125.	-1.41369998	-1.52640009	-1.10720003	5.56998004	0.00750000	-0.21619999
130.	-0.76349998	-0.78000000	-1.35330999	4.98320007	0.00280000	-0.18979999
135.	0.01790001	-1.57430001	-2.64940000	-1.20529997	0.01820000	-0.15700001
140.	0.33059999	0.05210000	-1.68820000	-1.71449995	0.02340000	-0.13970000
145.	0.25430000	0.18430000	-0.57359999	-0.03810000	0.00050000	-0.12570000
150.	0.10650000	0.02470000	-0.56800002	-0.12860000	0.01630000	-0.10420000
155.	0.07950000	-0.04490000	-0.62260002	-0.55989999	0.00600000	-0.07160000
160.	0.05770000	-0.06170000	-0.43419999	-0.64999998	0.00310000	-0.03670000
165.	0.00780003	-0.06210000	-0.02120000	-0.03840000	0.01210000	-0.01500000
170.	0.00220000	-0.04490000	0.02990000	0.10900000	0.01090000	-0.01330000
175.	-0.00020000	-0.01370000	0.00690000	0.01150000	0.00340000	-0.00010000
180.	-0.01340000	-0.03310000	0.00400000	0.00600000	0.00460000	0.00230000

ORIGINAL PAGE IS
OF POOR QUALITY

STEEL CASE SYSTEMS TUNNEL INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LPEF (STA 1255.9)

MACH= 0.60
PHI= 90.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00810000
5.	0.00000000	0.00869000	0.00000000	0.00000000	0.00000000	0.00530000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00860000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00120000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.01360000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.02020000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.01910000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.01580000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00500000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.01430000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.01950000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.01140000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00360000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00250000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00350000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00280000
80.	0.00000000	0.10000000	0.00000000	0.00000000	0.00000000	0.00310000
85.	0.00000000	0.23000000	-0.04800000	0.00000000	-0.02000000	0.00310000
90.	0.00000000	0.33000001	-0.10000000	-0.05000000	-0.05000000	0.00310000
95.	0.00000000	0.31000000	-0.15000001	-0.12000000	-0.05000000	0.00310000
100.	-0.05980000	0.17640001	-0.10440000	-0.22679999	-0.06520000	0.00310000
105.	-0.16110000	-0.25430000	-0.04220000	-0.56000000	-0.03970000	-0.00260000
110.	-0.09430000	-0.11770000	-0.10260000	-0.72000003	-0.05300000	0.00350000
115.	-0.02430000	0.17910001	-0.34240001	-0.88319999	-0.12420000	-0.00250000
120.	-0.21810000	0.10190000	0.20000000	-0.89999998	-0.15560000	0.00360000
125.	-1.83609998	-3.35360003	0.60059999	0.01120000	-0.14530000	0.01140000
130.	-2.72340012	-6.07000017	0.19630000	1.09050000	-0.10320000	0.01950000
135.	-0.64130002	-2.21440005	0.04390000	0.66490000	-0.01500000	0.01430000
140.	0.05940000	0.09210000	0.05400000	-0.08660000	0.00590000	0.00500000
145.	0.01360000	0.00180000	0.05380000	0.01590000	0.01300000	0.01580000
150.	0.00720000	0.02250000	0.01880000	0.00740000	0.00260000	0.01910000
155.	0.02020000	0.01370000	0.02310000	0.09230000	-0.00300000	0.02020000
160.	0.01200000	0.02230000	-0.04540000	-0.05950000	-0.00210000	0.01360000
165.	0.00460000	0.00960000	-0.02910000	-0.00910000	0.01380000	-0.00120000
170.	0.01110000	0.00320000	-0.00840000	0.01380000	0.00660000	0.00860000
175.	-0.00180000	0.00910000	-0.01440000	0.01050000	0.01360000	0.00530000
180.	-0.00120000	0.02270000	-0.01020000	-0.02360000	0.01170000	0.00810000

STEEL CASE SYSTEMS TUNNEL INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.90
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00020000	0.00000000	0.00000000	0.00000000	0.00000000	0.01340000
5.	0.06030000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000010	0.00000000	0.00000000	0.00000000	0.00000000	-0.00610002
15.	0.00020000	0.00000000	0.00000000	0.00000000	0.00000000	-0.01710000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.02380000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.03520000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.05460000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.08290000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.10000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.12290000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.13130000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.12790000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.08100000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00090000
70.	0.00000000	0.00000000	-0.00000000	0.00000000	0.00000000	-0.07190000
75.	0.00000000	0.00000000	-0.20000000	0.00000000	0.00000000	-0.07410000
80.	0.00000000	0.00000000	-0.33000001	0.00000000	0.00000000	-0.06950000
85.	0.00000000	0.00000000	-0.50000000	0.02000000	0.00000000	-0.06950000
90.	0.12060000	0.00000000	-0.67000002	0.10000000	0.00000000	-0.06550000
95.	0.16600000	-0.00000000	-0.81999999	0.38000000	0.01000000	-0.06950000
100.	0.19939991	-0.26660000	-1.01000001	0.66909599	0.02800000	-0.06950000
105.	0.20366000	-0.50629997	-1.09459996	0.84130001	0.04500000	-0.07410000
110.	0.13140000	-0.63720000	-1.11010003	0.82380003	0.05810000	-0.07190000
115.	0.12790000	-0.69739997	-1.09979999	0.73409996	0.05020000	-0.08090000
120.	0.18910000	-0.69410002	-1.29970002	0.81130000	0.05230000	-0.08100000
125.	0.42160001	-1.13049996	-2.26469994	-1.94299996	0.05230000	-0.12790000
130.	0.84680003	-0.51630002	-2.47740006	-2.25850010	0.04040000	-0.13130000
135.	0.73369998	-0.84500003	-2.29180002	-2.64019990	0.04860000	-0.12290000
140.	0.48350000	-1.03340006	-1.74660003	-2.53660011	0.04560000	-0.10000000
145.	0.92119998	-0.26940000	-1.40050006	-1.80330002	0.03420000	-0.08290000
150.	1.11670005	0.66149998	-1.62419999	-0.08100000	0.00950000	-0.05460000
155.	0.82559999	0.71969998	-1.26880002	0.18359999	0.02170000	-0.03520000
160.	0.60039997	0.79040003	-1.06550002	-0.98820001	0.02550000	-0.02380000
165.	0.40730000	0.65799999	-0.41909999	-0.67439597	0.02160000	-0.01710000
170.	0.12390000	0.28060001	-0.02440000	0.05720000	0.02830000	-0.00610000
175.	0.01910000	0.06800000	-0.00310000	0.09760000	0.01570000	0.00060000
180.	-0.00560000	0.02950000	0.00250000	0.02580000	0.00870000	0.01340000

ORIGINAL PAGE IS
OF POOR QUALITY

STEEL CASE SYSTEMS TUNNEL INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1253.9)

MACH= 0.90
PHI= 45.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00650000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00410000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.01000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.02260000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.03750000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.05470000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.07300000
35.	0.00000000	0.00000000	0.00000000	0.05000000	0.00000000	-0.09410000
40.	0.00000000	0.00000000	0.00000000	0.20999999	0.00000000	-0.11570001
45.	0.00000000	0.00000000	0.00000000	0.50000000	0.00000000	-0.13950000
50.	0.00000000	0.00000000	0.00000000	0.86000001	0.00000000	-0.16590000
55.	0.00000000	0.00000000	0.05000000	1.50000000	0.00000000	-0.19899999
60.	0.00000000	0.00000000	0.15000001	2.00000000	0.00000000	-0.23650001
65.	0.00000000	0.00000000	0.30000001	2.59999990	0.00000000	-0.27969999
70.	0.00000000	0.00000000	0.60000002	3.04999995	0.00000000	-0.28570000
75.	0.00000000	0.00000000	1.00000000	3.29999995	0.00000000	-0.26960001
80.	0.00000000	0.00000000	1.29999995	3.40000010	0.00000000	-0.23240000
85.	0.00000000	-0.05000000	1.60000002	3.50000000	0.00000000	-0.23240000
90.	0.00000000	-0.10000000	1.72000003	3.54999995	0.00000000	-0.23240000
95.	0.00000000	-0.25000000	1.89999998	3.50000000	0.00000000	-0.23240000
100.	0.01500000	-0.38000000	1.98010004	3.40459991	0.00510000	-0.23240000
105.	-0.03250000	-0.41249999	2.03660011	3.28870010	-0.00370000	-0.23960001
110.	-0.15000001	-0.45500001	2.11549997	3.03740001	-0.02250000	-0.23970000
115.	-0.33750001	-0.52499998	2.19400001	2.88210011	-0.03800000	-0.23969999
120.	-0.55549997	-0.72149998	2.14339995	2.70020008	-0.05230000	-0.23650001
125.	-0.64300001	-0.80000001	1.21739995	1.00629997	-0.02900000	-0.26089999
130.	-0.36160001	-0.77410001	0.73689997	0.60750002	-0.01490000	-0.22990000
135.	-0.24410000	-0.70270002	0.33600000	0.21359999	-0.00320000	-0.19350000
140.	-0.28070000	-0.84899998	-0.32949999	0.00680000	0.02560000	-0.15700001
145.	0.22280000	0.17280000	-0.33700001	-0.08280000	-0.01450000	-0.12410000
150.	0.01330000	-0.09370000	-0.19490001	-0.00120000	0.01620000	-0.09300000
155.	0.02340000	-0.04260000	-0.20780000	-0.17580000	0.01380000	-0.06470000
160.	0.02460000	-0.15150000	-0.09480000	-0.01460000	0.01700000	-0.03750000
165.	0.00610000	-0.11080000	0.01300000	0.10460000	0.01190000	-0.02260000
170.	-0.00060000	-0.09020000	0.04430000	0.27919999	0.00770000	-0.01000000
175.	0.00880000	-0.04330000	0.02830000	0.13100000	0.00030000	-0.00410000
180.	0.01130000	-0.00470000	0.00840000	0.02750000	0.01300000	0.00650000

STEEL CASE SYSTEMS TUNNEL INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.10
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00010000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00200000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.01720000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.03250000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.03920000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.05100000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.07650000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.10140000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.12899999
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.16060001
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.17150000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.17749999
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.18000001
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.19000000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.19000000
75.	0.00000000	0.00000000	-0.02000000	0.00000000	0.00000000	-0.19000000
80.	0.02000000	0.00000000	-0.08000000	0.00000000	0.00000000	-0.19000000
85.	0.10000000	0.00000000	-0.20000000	0.00000000	0.00000000	-0.19000000
90.	0.20000000	0.00000000	-0.38000000	0.00000000	0.00000000	-0.19000000
95.	0.34999999	-0.03000000	-0.50999999	0.00000000	0.00000000	-0.19000000
100.	0.50999999	-0.10000000	-0.75000000	0.00000000	0.00000000	-0.19000000
105.	0.61000001	-0.20000000	-0.94999999	-0.05000000	0.00000000	-0.19000000
110.	0.66000003	-0.34999999	-1.10000002	-0.09000000	0.00000000	-0.19000000
115.	0.60000002	-0.50000000	-1.25000000	-0.40000001	0.00000000	-0.19000000
120.	0.52100003	-0.77350003	-1.43250000	-0.81360000	0.00000000	-0.18000001
125.	0.39390001	-1.17180002	-1.52370000	-1.51940000	0.00000000	-0.17749999
130.	0.58620000	-0.82980001	-1.62049997	-1.37170005	0.00000000	-0.17150000
135.	0.82309997	-0.11730000	-1.65400004	-1.30270004	0.00000000	-0.16060001
140.	0.88230002	0.44850001	-1.52639997	-1.21980000	0.00000000	-0.12899999
145.	0.85070002	0.82249999	-1.27090001	-1.12000000	0.00000000	-0.10140000
150.	0.79570001	0.73780000	-1.16129994	-1.01409996	0.00000000	-0.07650000
155.	0.63630003	0.59359998	-0.99959999	-0.12360000	0.00000000	-0.05100000
160.	0.64310002	0.43290001	-0.81500000	0.23999999	0.00000000	-0.03920000
165.	0.42539999	0.36149999	-0.41440001	0.34000000	0.00000000	-0.03250000
170.	0.17250000	0.22090000	0.06480000	0.28259999	0.00000000	-0.01720000
175.	0.02200000	-0.06020000	0.02270000	0.14160000	0.00000000	-0.00200000
180.	0.00250000	-0.03470000	0.01670000	0.07690000	0.00000000	-0.00010000

PRECEDING PAGE BLANK NOT FILMED

STEEL CASE SYSTEMS TUNNEL INCREMENT

DREF=146 IN
LREF=1709.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.10
PHI= 45.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00540000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00180000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.01140000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.03030000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.05080000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.07430000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.10540000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.13810999
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.14710000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.18279999
50.	0.00000000	0.00000000	0.20000000	0.00000000	0.00000000	-0.20999999
55.	0.00000000	0.00000000	0.40000001	0.00000000	0.00000000	-0.22930001
60.	0.00000000	0.00000000	0.69999999	0.00000000	0.00000000	-0.25999999
65.	0.00000000	0.00000000	1.14999998	0.22000000	0.00000000	-0.26499999
70.	0.00000000	0.00000000	1.39999998	0.50000000	0.00000000	-0.29500000
75.	0.00000000	0.00000000	1.70000005	0.83999997	0.00000000	-0.29400000
80.	0.00000000	0.00000000	1.89999998	1.20000005	0.00000000	-0.29499999
85.	0.00000000	0.00000000	2.04999995	1.60000002	0.00000000	-0.29699999
90.	0.00000000	0.00000000	2.09999990	1.82000005	0.00000000	-0.29699999
95.	0.00000000	0.00000000	2.20000005	2.04999995	0.00000000	-0.29499999
100.	0.00000000	0.00000000	2.11999989	2.19000006	0.00000000	-0.29400000
105.	0.00000000	0.00000000	2.09999990	2.22000003	0.00000000	-0.28500000
110.	0.00000000	0.00000000	2.00000000	2.20000005	0.00000000	-0.26499999
115.	-0.00000000	0.00000000	1.84000003	2.19000006	0.00000000	-0.25599999
120.	-0.17680000	-0.26780000	1.56789994	2.00620008	0.00000000	-0.25139999
125.	-0.38499999	-0.89090002	1.30869997	1.76659999	0.00000000	-0.22930001
130.	-0.38000001	-0.73240000	1.12279999	1.66170001	0.00000000	-0.20999995
135.	-0.22630000	-0.68610001	0.87529999	1.33640003	0.00000000	-0.18279999
140.	-0.15189999	-0.44999999	0.65179998	1.02810001	0.00000000	-0.14710000
145.	-0.14420000	-0.45900000	0.54540002	0.60710001	0.00000000	-0.12819999
150.	-0.09110000	-0.32589999	0.40979999	0.35010001	0.00000000	-0.10540000
155.	-0.02500000	-0.10950000	0.24250001	0.36559999	0.00000000	-0.07430000
160.	-0.01780000	-0.05000000	0.21630000	0.51769999	0.00000000	-0.05080000
165.	-0.01040000	0.12540001	0.17430000	0.56919998	0.00000000	-0.03030000
170.	0.02150000	0.26150000	0.16180000	0.18430001	0.00000000	-0.01140000
175.	0.02560000	0.09540000	0.03310000	0.03630000	0.00000000	-0.00180000
180.	0.03620000	0.18950000	0.01940000	0.11330000	0.00000000	0.00540000

ORIGINAL PAGE IS
OF POOR QUALITY

STEEL CASE SYSTEMS TUNNEL INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.10
PHI= 90.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00430000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00060000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00310000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00150000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00040000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00260000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00270000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00110000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00470000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00770000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00970000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00450000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
85.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
90.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
95.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
100.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
105.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
110.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
115.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
120.	0.00000000	0.00000000	-0.01100000	0.01040000	0.00000000	0.00450000
125.	-0.04510000	-0.07290000	0.00970000	-0.01200000	0.00000000	0.00970000
130.	-0.06890000	-0.14229999	0.01700000	0.00350000	0.00000000	0.00770000
135.	-0.04240000	-0.13370000	0.01580000	-0.01620000	0.00000000	0.00470000
140.	-0.04590000	-0.09960000	0.00970000	-0.00680000	0.00000000	0.00110000
145.	-0.04150000	-0.01810000	-0.03100000	0.05650000	0.00000000	0.00270000
150.	-0.02160000	0.00790000	0.00540000	0.04490000	0.00000000	0.00280000
155.	-0.01920000	0.01630000	-0.05040000	-0.02800000	0.00000000	0.00040000
160.	-0.03260000	-0.03940000	-0.07720000	0.15540000	0.00000000	0.00150000
165.	-0.02820000	-0.07430000	0.03020000	0.11370000	0.00000000	0.00310000
170.	-0.01600000	-0.04780000	-0.01350000	-0.07390000	0.00000000	-0.00060000
175.	-0.01220000	-0.07300000	0.01470000	0.07600000	0.00000000	0.00000000
180.	0.00160000	-0.04760000	-0.00250000	-0.00050000	0.00000000	0.00430000

ORIGINAL PAGE IS
OF POOR QUALITY

STEEL CASE SYSTEMS TUNNEL INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.30
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00340000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00370000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.01620000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.03220000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.03300000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.05210000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.07020000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.10060000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.12840000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.14770000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.16040000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.16720000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.16470000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.15000001
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.13500000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.11100000
80.	0.00000000	0.00000000	-0.07000000	-0.05000000	0.00000000	-0.09200000
85.	0.00000000	0.00000000	-0.20999999	-0.13000000	0.00000000	-0.07300000
90.	0.00000000	-0.05000000	-0.41000000	-0.22000000	0.00000000	-0.05400001
95.	0.00000000	-0.22000000	-0.69000000	-0.38000000	0.00000000	-0.03300000
100.	0.00000000	-0.40000001	-0.89999996	-0.54000002	0.00000000	-0.01200000
105.	0.03000000	-0.47999999	-1.10000002	-0.68000001	0.00000000	-0.01100000
110.	0.06000000	-0.55000001	-1.29999995	-0.80000001	0.00000000	-0.03500000
115.	0.17000000	-0.54000002	-1.39999998	-1.00000000	0.00000000	-0.18000001
120.	0.37799999	-0.56040001	-1.45070004	-1.23269999	0.00000000	-0.16470000
125.	0.55489999	-0.34999999	-1.45190001	-1.35790002	0.00000000	-0.16720000
130.	0.54350001	-0.15449999	-1.39080000	-1.37160003	0.00000000	-0.16040000
135.	0.71319997	0.09200000	-1.26530004	-1.23469996	0.00000000	-0.14770000
140.	0.68059998	0.93610001	-1.17410004	-1.17480004	0.00000000	-0.12840000
145.	0.71689999	0.51670003	-1.09780002	-0.88849998	0.00000000	-0.10060000
150.	0.66100001	0.53530002	-1.12969995	-0.43259999	0.00000000	-0.07020000
155.	0.50379997	0.36019999	-0.73229998	-0.20000000	0.00000000	-0.05210000
160.	0.56309998	0.46100000	-0.50000000	0.00000000	0.00000000	-0.03300000
165.	0.30299999	0.34810001	-0.27649999	0.06000000	0.00000000	-0.03220000
170.	0.13300000	0.23729999	-0.01480000	0.08100000	0.00000000	-0.01620000
175.	0.01860000	-0.00440000	0.00040000	0.06600000	0.00000000	-0.00370000
180.	-0.00670000	-0.00640000	0.00790000	0.03450000	0.00000000	-0.00340000

ORIGINAL PAGE IS
OF POOR QUALITY

STEEL CASE SYSTEMS TUNNEL INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.30
PHI= 45.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00660000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.01060000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.01690000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.03350000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.05260000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.07080000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.09270000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.11520000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.14790000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.16940001
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.19080000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.21220000
60.	0.00000000	0.00000000	0.10000000	0.00000000	0.00000000	-0.22970000
65.	-0.02000000	-0.05000000	0.25000000	0.00000000	0.00000000	-0.23999999
70.	-0.04000000	-0.10000000	0.44999999	0.00000000	0.00000000	-0.24500000
75.	-0.09000000	-0.15000001	0.69999999	0.00000000	0.00000000	-0.25000000
80.	-0.11000000	-0.22000000	0.89999998	0.00000000	0.00000000	-0.25999999
85.	-0.18000001	-0.33000001	1.17999995	0.10000000	0.00000000	-0.25999999
90.	-0.20999999	-0.40000001	1.29999995	0.28999999	0.00000000	-0.25000000
95.	-0.31999999	-0.50000000	1.41999996	0.50999999	0.00000000	-0.25999999
100.	-0.38999999	-0.57999998	1.50999999	0.79000002	0.00000000	-0.25999999
105.	-0.41000000	-0.61000001	1.54999995	1.04999995	0.00000000	-0.25000000
110.	-0.38999999	-0.64999998	1.52999997	1.25000000	0.00000000	-0.24500000
115.	-0.36000001	-0.62000000	1.50000000	1.45000005	0.00000000	-0.23999999
120.	-0.34630001	-0.57309997	1.40649998	1.58050001	0.00000000	-0.22970000
125.	-0.27720001	-0.52389997	1.23090005	1.65310001	0.00000000	-0.21220000
130.	-0.18269999	-0.43500000	1.02600002	1.50290000	0.00000000	-0.19080000
135.	-0.16350000	-0.48100001	0.83770001	1.27540004	0.00000000	-0.16940001
140.	-0.18740000	-0.49860001	0.55430001	0.91189998	0.00000000	-0.14790000
145.	-0.11190000	-0.36460000	0.40380001	0.69150001	0.00000000	-0.11520000
150.	-0.10350000	-0.35920000	0.31590000	0.46270001	0.00000000	-0.09270000
155.	-0.07800000	-0.31490001	0.25119999	0.49200001	0.00000000	-0.07080000
160.	-0.01050000	-0.26719999	0.11670000	0.39010000	0.00000000	-0.05260000
165.	0.00360000	-0.05900000	0.08600000	0.24180000	0.00000000	-0.03350000
170.	0.00490000	-0.06050000	0.02430000	0.09140000	0.00000000	-0.01690000
175.	-0.00260000	-0.09850000	0.01030000	0.02430000	0.00000000	-0.01060000
180.	-0.00630000	-0.02970000	0.00250000	0.02190000	0.00000000	-0.00660000

STEEL CASE SYSTEMS TUNNEL INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.30
PHI= 90.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
85.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
90.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
95.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
100.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
105.	-0.05000000	-0.08000000	0.00000000	0.00000000	0.00000000	0.00000000
110.	-0.10000000	-0.19000000	0.00000000	0.00000000	0.00000000	0.00000000
115.	-0.08000000	-0.25000000	0.00000000	0.00000000	0.00000000	0.00000000
120.	-0.06330000	-0.16150001	0.02530000	-0.00730000	0.00000000	0.00310000
125.	0.00960000	-0.02510000	0.02280000	0.00340000	0.00000000	-0.00070000
130.	-0.01350000	-0.10230000	0.02240000	0.00280000	0.00000000	-0.00040000
135.	0.00760000	-0.07270000	0.01800000	0.00850000	0.00000000	0.00020000
140.	0.00970000	-0.04670000	0.00950000	0.01110000	0.00000000	0.00160000
145.	0.00050000	0.06670000	-0.01480000	0.09880000	0.00000000	0.00630000
150.	-0.03670000	-0.05610000	0.00200000	0.01160000	0.00000000	0.00760000
155.	-0.03380000	-0.07540000	0.01320000	0.01630000	0.00000000	0.00470000
160.	-0.03310000	-0.07740000	0.00830000	-0.02040000	0.00000000	0.01110000
165.	-0.01260000	-0.01790000	0.01500000	-0.02230000	0.00000000	0.00760000
170.	0.01350000	0.02410000	-0.02420000	0.01150000	0.00000000	0.00460000
175.	-0.00460000	-0.05340000	0.00350000	-0.01120000	0.00000000	0.00600000
180.	-0.00530000	-0.04290000	0.00730000	-0.00110000	0.00000000	0.00070000

ORIGINAL PAGE IS
OF POOR QUALITY

STEEL CASE SYSTEMS TUNNEL INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 2.99
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00440000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00190000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00620000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.01540000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.01580000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.03250000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.03950000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.04910000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.05630000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.06500000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.07200000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.07250000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.07500000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.07500000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.07600000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.07900000
80.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.07900000
85.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.08000000
90.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.08000000
95.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.07920000
100.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.07900000
105.	0.02000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.07800000
110.	0.05000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.07500000
115.	0.10000000	0.00000000	0.00000000	-0.05000000	0.00000000	-0.07500000
120.	0.12000000	0.00000000	-0.05000000	-0.10000000	0.00000000	-0.07200000
125.	0.20000000	0.05000000	-0.10000000	-0.12000000	0.00000000	-0.06500000
130.	0.23000000	0.11000000	-0.16000000	-0.20000000	0.00000000	-0.05830000
135.	0.20999999	0.19000000	-0.19000000	-0.20999999	0.00000000	-0.04910000
140.	0.20730001	0.16530000	-0.21280000	-0.16930000	0.00000000	-0.03950000
145.	0.16880000	0.11080000	-0.19090000	-0.15520000	0.00000000	-0.03250000
150.	0.15420000	0.09210000	-0.18290000	-0.17170000	0.00000000	-0.01580000
155.	0.16550000	0.16760001	-0.20510000	-0.21840000	0.00000000	-0.01540000
160.	0.14180000	0.08400000	0.01400000	-0.14350001	0.00000000	-0.00620000
165.	0.09620000	0.03550000	0.02700000	0.01700000	0.00000000	-0.00190000
170.	0.06600000	0.09160000	-0.01910000	-0.05350000	0.00000000	0.00440000
175.	0.01520000	0.01990000	-0.00330000	-0.00930000	0.00000000	
180.	-0.00820000	-0.00120000	0.00550000	0.00730000	0.00000000	

STEEL CASE SYSTEMS TUNNEL INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 2.99
PHI= 45.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00010000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00480000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.01340000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.01720000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.03220000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.04420000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.06520000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.09160000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.11400000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.14749999
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.16500001
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.18750000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.19000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.19499999
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.20000000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.20000000
80.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.20000000
85.	0.00000000	0.00000000	0.05000000	0.00000000	0.00000000	-0.20000000
90.	0.00000000	0.00000000	0.10000000	0.05000000	0.00000000	-0.20000000
95.	0.00000000	0.00000000	0.20000000	0.12000000	0.00000000	-0.20000000
100.	0.00000000	0.00000000	0.30000001	0.20999999	0.00000000	-0.20000000
105.	0.00000000	0.00000000	0.40000001	0.30999999	0.00000000	-0.20000000
110.	0.00000000	-0.05000000	0.50000000	0.50000000	0.00000000	-0.20000000
115.	0.00000000	-0.10000000	0.56999999	0.60000002	0.00000000	-0.19499999
120.	0.00000000	-0.15000001	0.60000002	0.65000000	0.00000000	-0.19000000
125.	0.00000000	-0.20000000	0.60000002	0.69999999	0.00000000	-0.18750000
130.	0.00000000	-0.23000000	0.56999999	0.69000000	0.00000000	-0.16500001
135.	0.00000000	-0.27000001	0.50999999	0.64999998	0.00000000	-0.14749999
140.	-0.02110000	-0.27720001	0.41630000	0.56199998	0.00000000	-0.11400000
145.	-0.03400000	-0.23310000	0.33360001	0.48230001	0.00000000	-0.09160000
150.	-0.04600000	-0.23289999	0.24510001	0.39269999	0.00000000	-0.06520000
155.	-0.02260000	-0.17380001	0.15369999	0.27210000	0.00000000	-0.04420000
160.	-0.02240000	-0.11880000	0.11410000	0.23740000	0.00000000	-0.03220000
165.	-0.01550000	-0.07000000	0.07360000	0.16240001	0.00000000	-0.01720000
170.	-0.00920000	-0.04310000	0.01890000	0.03540000	0.00000000	-0.01340000
175.	-0.01240000	-0.02070000	0.00730000	0.00170000	0.00000000	-0.00480000
180.	-0.01650000	-0.02060000	0.00480000	0.00320000	0.00000000	0.00010000

STEEL CASE SYSTEMS TUNNEL INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 2.99
PHI= 90.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
85.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
90.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
95.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
100.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
105.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
110.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
115.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
120.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
125.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
130.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
135.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
140.	-0.00190000	0.00330000	0.00490000	-0.00840000	0.00000000	-0.00040000
145.	-0.00050000	-0.00210000	0.00890000	-0.00650000	0.00000000	0.00660000
150.	0.00110000	0.00210000	0.00480000	-0.00410000	0.00000000	-0.00020000
155.	0.00070000	0.00780000	0.00360000	-0.00630000	0.00000000	0.00380000
160.	-0.00180000	0.01500000	0.01040000	0.00560000	0.00000000	0.00650000
165.	-0.00800000	0.00310000	0.01120000	0.03050000	0.00000000	0.00200000
170.	-0.00680000	0.00470000	0.01760000	0.02700000	0.00000000	0.00230000
175.	-0.00790000	0.00250000	0.00560000	0.00080000	0.00000000	0.00490000
180.	-0.00890000	-0.00660000	0.00470000	0.00620000	0.00000000	0.00200000

FWC Stiffener Ring Increments

C-2

FLT DIFFERENCE BUILD INCREMENT

DREF=146 IN
LREF=1700.0 IN
MRP=.50(LREF (STA 1350.0)

[illegible]=1.00
PHI= 0

ALPHA	CN	CM	CY	CYM	CA	CD
0.	0.00026000	0.00000000	0.00000000	0.00000000	0.00000000	0.00[illegible]
5.	0.08[illegible]	0.[illegible]0000	0.[illegible]	0.[illegible]	0.00000000	0.00[illegible]
10.	0.17[illegible]	0.[illegible]	0.[illegible]	0.[illegible]	0.00000000	0.00[illegible]
15.	0.25[illegible]	0.00[illegible]	0.00[illegible]	0.[illegible]	0.00000000	0.00[illegible]
20.	0.33[illegible]	0.00[illegible]	0.00[illegible]	0.[illegible]	0.00000000	0.00[illegible]
25.	0.41[illegible]	0.01[illegible]	0.01[illegible]	0.00[illegible]	0.00000000	0.00[illegible]
30.	0.49[illegible]	0.01[illegible]	0.01[illegible]	0.01[illegible]	0.00000000	0.00[illegible]
35.	0.57[illegible]	0.02[illegible]	0.02[illegible]	0.01[illegible]	0.00000000	0.00[illegible]
40.	0.64[illegible]	0.03[illegible]	0.03[illegible]	0.02[illegible]	0.00000000	0.00[illegible]
45.	0.71[illegible]	0.04[illegible]	0.04[illegible]	0.03[illegible]	0.00000000	0.00[illegible]
50.	0.78[illegible]	0.05[illegible]	0.05[illegible]	0.04[illegible]	0.00000000	0.00[illegible]
55.	0.84[illegible]	0.06[illegible]	0.06[illegible]	0.05[illegible]	0.00000000	0.00[illegible]
60.	0.89[illegible]	0.07[illegible]	0.07[illegible]	0.06[illegible]	0.00000000	0.00[illegible]
65.	0.93[illegible]	0.08[illegible]	0.08[illegible]	0.07[illegible]	0.00000000	0.00[illegible]
70.	0.96[illegible]	0.09[illegible]	0.09[illegible]	0.08[illegible]	0.00000000	0.00[illegible]
75.	0.98[illegible]	0.10[illegible]	0.10[illegible]	0.09[illegible]	0.00000000	0.00[illegible]
80.	0.99[illegible]	0.11[illegible]	-0.02[illegible]	0.10[illegible]	0.00000000	0.00[illegible]
85.	0.99[illegible]	0.12[illegible]	-0.01[illegible]	0.11[illegible]	0.00000000	0.00[illegible]
90.	1.00[illegible]	0.12[illegible]	-0.00[illegible]	0.12[illegible]	0.00000000	0.00[illegible]
95.	0.99[illegible]	0.13[illegible]	0.00[illegible]	0.12[illegible]	0.00000000	0.00[illegible]
100.	0.98[illegible]	0.13[illegible]	-0.00[illegible]	0.13[illegible]	-0.00000000	0.00[illegible]
105.	0.96[illegible]	0.13[illegible]	-0.01[illegible]	0.13[illegible]	0.00000000	0.00[illegible]
110.	0.93[illegible]	0.13[illegible]	-0.01[illegible]	0.13[illegible]	0.00000000	0.00[illegible]
115.	0.89[illegible]	0.13[illegible]	-0.02[illegible]	0.13[illegible]	0.00000000	0.00[illegible]
120.	-0.11[illegible]	-0.13[illegible]	-0.02[illegible]	0.13[illegible]	0.00000000	0.00[illegible]
125.	-0.17[illegible]	-0.13[illegible]	-0.03[illegible]	0.13[illegible]	0.00000000	0.00[illegible]
130.	-0.23[illegible]	-0.13[illegible]	-0.03[illegible]	0.13[illegible]	0.00000000	0.00[illegible]
135.	0.29[illegible]	-0.13[illegible]	-0.03[illegible]	0.13[illegible]	0.00000000	0.00[illegible]
140.	0.34[illegible]	-0.13[illegible]	-0.03[illegible]	0.13[illegible]	0.00000000	0.00[illegible]
145.	0.39[illegible]	-0.13[illegible]	-0.03[illegible]	0.13[illegible]	-0.00000000	0.00[illegible]
150.	0.43[illegible]	-0.13[illegible]	-0.03[illegible]	0.13[illegible]	-0.00000000	0.00[illegible]
155.	0.46[illegible]	-0.13[illegible]	-0.03[illegible]	0.13[illegible]	-0.00000000	0.00[illegible]
160.	0.49[illegible]	-0.13[illegible]	-0.03[illegible]	0.13[illegible]	-0.00000000	0.00[illegible]
165.	-0.50[illegible]	-0.13[illegible]	-0.03[illegible]	0.13[illegible]	-0.00000000	0.00[illegible]
170.	-0.50[illegible]	-0.13[illegible]	-0.03[illegible]	0.13[illegible]	-0.00000000	0.00[illegible]
175.	-0.01[illegible]	-0.13[illegible]	0.03[illegible]	-0.13[illegible]	0.00000000	0.00[illegible]
180.	-0.01[illegible]	-0.13[illegible]	0.03[illegible]	-0.13[illegible]	-0.00000000	0.00[illegible]

ORIGINAL PAGE IS
OF POOR QUALITY

FLC STIFFENER RINGS INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.60
PHI= 45.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.00000000	0.00190000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.00000000	0.05000000	-0.00200000	0.00000000	0.00000000
80.	0.00000000	0.00000000	0.09500000	-0.00500000	0.00000000	0.00000000
85.	0.02450000	0.00270000	0.10500000	-0.14500000	0.00000000	0.00000000
90.	0.05500000	0.05500000	0.10250000	-0.17050000	0.00000000	0.00000000
95.	0.09000000	0.10500000	0.05650000	-0.17250000	0.00000000	0.00000000
100.	0.09020000	0.14500000	-0.07300000	-0.16640000	-0.01960000	0.00000000
105.	-0.00700000	0.12660000	-0.33960000	-0.09650000	-0.05610000	0.00000000
110.	-0.03660000	0.00770000	-0.21020000	-0.01600000	-0.03600000	0.00000000
115.	0.00890000	0.00900000	-0.25340000	0.45000000	-0.01140000	0.00000000
120.	-0.13779999	-0.01070000	-0.21960001	0.49720001	-0.00210000	0.00000000
125.	-0.17600000	-0.02960000	-0.10350001	0.35710001	0.01320000	0.00000000
130.	-0.06240000	-0.03070000	-0.27270001	0.17569999	0.00550000	0.00000000
135.	-0.16460000	-0.30469999	-0.31659999	0.43259999	0.02460000	0.00000000
140.	-0.02500000	-0.00070000	-0.20999999	-0.00270000	-0.01070000	0.00000000
145.	0.03790000	0.11810000	-0.19000000	-0.22020000	-0.02760000	0.00000000
150.	0.00840000	0.05270000	-0.06320000	-0.16300000	-0.03070000	0.00000000
155.	0.00060000	-0.02460000	0.03630000	-0.05310000	-0.02790000	0.00000000
160.	-0.04360000	-0.02700000	-0.00940000	-0.04370000	-0.01050000	0.00000000
165.	-0.01750000	0.00310000	0.01330000	-0.01990000	-0.00910000	0.00000000
170.	-0.00650000	-0.01220000	0.00070000	0.00770000	-0.00920000	0.00000000
175.	-0.00690000	-0.02060000	-0.00040000	0.00170000	-0.01140000	0.00000000
180.	-0.00900000	-0.02300000	-0.00960000	-0.02020000	-0.01100000	0.00000000

ORIGINAL PAGE IS
OF POOR QUALITY

FWC STIFFENER RINGS INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.60
PHI= 90.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
85.	0.00000000	0.05000000	0.00000000	0.00000000	0.00000000	0.00000000
90.	0.00000000	0.09500000	-0.04350000	0.00000000	0.00000000	0.00000000
95.	0.00000000	0.10500000	-0.09500000	0.00000000	0.05000000	0.00000000
100.	0.00340000	0.09210000	-0.06000000	0.00000000	0.04710000	0.00000000
105.	-0.03900000	0.09900000	0.05010000	-0.01510000	0.02600000	0.00000000
110.	0.00200000	0.23459999	-0.12110000	0.10500000	0.03600000	0.00000000
115.	-0.00510000	0.18650000	-0.20010000	0.20220000	0.03990000	0.00000000
120.	-0.01010000	0.17940000	-0.17250000	0.22939999	0.01660000	0.00000000
125.	-0.02060000	0.21150000	0.05560000	-0.01740000	-0.00590000	0.00000000
130.	-0.04770000	0.17230000	0.11700000	-0.14030001	0.00340000	0.00000000
135.	0.00500000	0.23440000	0.10550000	0.35620001	0.00490000	0.00000000
140.	0.01960000	0.16940001	0.03500000	0.22030003	0.00300000	0.00000000
145.	-0.00570000	0.01920000	0.07270000	0.03540000	0.00360000	0.00000000
150.	-0.01930000	-0.00240000	0.01820000	0.00220000	-0.00260000	0.00000000
155.	0.00690000	-0.00300000	-0.00100000	-0.00350000	0.00020000	0.00000000
160.	-0.02000000	0.00900000	-0.03610000	0.03860000	0.00620000	0.00000000
165.	-0.03340000	-0.04340000	-0.01040000	0.04500000	0.00460000	0.00000000
170.	-0.03160000	-0.02130000	0.00120000	-0.00020000	-0.00160000	0.00000000
175.	-0.02000000	-0.00690000	-0.01430000	-0.01070000	-0.00440000	0.00000000
180.	-0.02330000	-0.01490000	-0.00000000	-0.02020000	-0.00570000	0.00000000

FWC STIFFENER RINGS INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.90
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	-0.00470000	0.00000000	0.00270000	0.00000000	0.00000000
65.	0.00000000	-0.10050000	0.00000000	0.04500000	0.00000000	0.00000000
70.	0.00000000	-0.20500000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	-0.36550000	0.00000000	0.17000000	0.00000000	0.00000000
80.	0.00000000	-0.59950000	0.00000000	0.25500000	0.00000000	0.00000000
85.	-0.00310000	-0.70490990	-0.03000000	0.31500000	0.00000000	0.00000000
90.	-0.04500000	-0.75050002	-0.06500000	0.34750000	0.00000000	0.00000000
95.	-0.06000000	-0.71490997	-0.10500000	0.31830001	0.00000000	0.00000000
100.	-0.08300000	-0.52219999	-0.08980000	0.23909999	0.00000000	0.00000000
105.	-0.05370000	-0.20940000	-0.07900000	0.11630000	0.00000000	0.00000000
110.	-0.02040000	-0.06520000	-0.05730000	0.06280000	0.00000000	0.00000000
115.	0.00690000	-0.07910000	-0.05270000	0.22420000	0.00000000	0.00000000
120.	0.02000000	-0.03650000	-0.03640000	0.10799999	0.00000000	0.00000000
125.	0.00050000	0.13429999	0.23899999	0.10190000	0.00000000	0.00000000
130.	-0.00100000	0.19660001	0.03030000	0.16580001	0.00000000	0.00000000
135.	0.00050000	0.37009999	-0.14640000	0.14700000	0.00000000	0.00000000
140.	0.01500000	0.35969999	-0.46000001	0.21619999	0.00000000	0.00000000
145.	-0.01170000	0.09390000	-0.42089999	0.17300001	0.00000000	0.00000000
150.	0.00000000	-0.03000000	0.11720000	0.06500000	0.00000000	0.00000000
155.	-0.00300000	-0.08440000	0.12010000	-0.01130000	0.00000000	0.00000000
160.	-0.01000000	-0.06170000	0.04590000	-0.03500000	0.00000000	0.00000000
165.	-0.01030000	0.00250000	0.00210000	-0.02510000	0.00000000	0.00000000
170.	-0.01550000	-0.00550000	0.00170000	-0.00720000	0.00000000	0.00000000
175.	0.00000000	-0.01900000	-0.00210000	-0.01760000	0.00000000	0.00000000
180.	0.00010000	-0.01430000	0.00040000			

FWC STIFFENER RINGS INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.90
PHI= 45.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.00000000	0.00000000	-0.00140000	0.00000000	0.00000000	0.00000000
85.	0.02500000	0.05000000	-0.04500000	0.02500000	0.00000000	0.00000000
90.	0.05500000	0.10500000	-0.09500000	0.07000000	0.00000000	0.00000000
95.	0.08000000	0.15500000	-0.10500000	0.13500001	0.00000000	0.00000000
100.	0.05450000	0.10200000	-0.14640000	0.21860000	0.00000000	0.00000000
105.	0.01490000	0.11030000	-0.15030000	0.23119999	0.00000000	0.00000000
110.	-0.01960000	-0.03780000	-0.08440000	0.22060000	0.00000000	0.00000000
115.	-0.06750000	-0.10540000	-0.06960000	0.20680000	0.00000000	0.00000000
120.	-0.06630000	-0.08860000	-0.02520000	0.13220000	0.00000000	0.00000000
125.	-0.08740000	0.04490000	0.05250000	0.10920000	0.00000000	0.00000000
130.	-0.07400000	0.20050000	-0.01340000	0.02130000	0.00000000	0.00000000
135.	-0.00960000	0.25309999	-0.09940000	-0.02740000	0.00000000	0.00000000
140.	-0.01630000	0.22090000	-0.10260000	-0.03300000	0.00000000	0.00000000
145.	0.00100000	0.20930000	-0.03620000	-0.09920000	0.00000000	0.00000000
150.	0.01730000	0.05420000	-0.06420000	-0.14510000	0.00000000	0.00000000
155.	0.00800000	0.01610000	-0.05430000	-0.15300000	0.00000000	0.00000000
160.	-0.00200000	-0.04230000	0.04370000	-0.11160000	0.00000000	0.00000000
165.	-0.00640000	0.01700000	-0.01090000	-0.07010000	0.00000000	0.00000000
170.	0.00060000	0.02660000	0.00790000	0.01090000	0.00000000	0.00000000
175.	-0.00760000	0.01250000	0.00010000	-0.01780000	0.00000000	0.00000000
180.	-0.01000000	0.00920000	-0.00160000	0.00200000	0.00000000	0.00000000

FWC STIFFENER RINGS INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.90
PHI= 90.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.00000000	0.00270000	0.00000000	0.00000000	0.00000000	0.00000000
85.	0.00000000	0.05500000	0.00000000	0.00000000	0.00000000	0.00000000
90.	0.00000000	0.09500000	0.00000000	-0.02520000	0.00000000	0.00000000
95.	-0.02050000	0.10000000	0.00000000	-0.05560000	0.00000000	0.00000000
100.	-0.03630000	0.04070000	0.00000000	-0.10010000	0.00000000	0.00000000
105.	-0.04210000	-0.05450000	0.03650000	-0.10760000	0.00000000	0.00000000
110.	0.00560000	-0.02400000	0.04210000	-0.09060000	0.00000000	0.00000000
115.	-0.07060000	0.02690000	0.00950000	-0.02360000	0.00000000	0.00000000
120.	-0.05530000	0.07730000	0.02220000	-0.07060000	0.00000000	0.00000000
125.	-0.07720000	0.16380000	0.05170000	-0.07460000	0.00000000	0.00000000
130.	-0.05560000	0.27959999	0.00700000	0.03550000	0.00000000	0.00000000
135.	-0.05090000	0.28370001	0.00730000	0.00450000	0.00000000	0.00000000
140.	-0.02500000	0.18190000	0.03180000	-0.01560000	0.00000000	0.00000000
145.	0.01800000	0.06020000	-0.02500000	0.02210000	0.00000000	0.00000000
150.	-0.03390000	0.03380000	-0.05970000	0.04060000	0.00000000	0.00000000
155.	-0.00170000	0.03760000	-0.04370000	0.02040000	0.00000000	0.00000000
160.	-0.00140000	-0.03810000	-0.04250000	0.09470000	0.00000000	0.00000000
165.	-0.02160000	-0.00110000	-0.02020000	-0.06630000	0.00000000	0.00000000
170.	-0.00950000	0.02200000	-0.00600000	-0.03420000	0.00000000	0.00000000
175.	-0.01550000	-0.01040000	0.00300000	0.02780000	0.00000000	0.00000000
180.	-0.01030000	-0.02460000	0.00370000	0.00070000	0.00000000	0.00000000
			-0.00650000	-0.00670000	0.00000000	0.00000000

FWC STIFFENER RINGS INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.10
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00009000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00003000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
85.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
90.	0.00000000	-0.00390000	0.00000000	0.00000000	0.00000000	0.00000000
95.	-0.02610000	-0.05000000	0.00000000	0.00000000	0.00000000	0.00000000
100.	-0.06610000	-0.10250000	-0.02500000	0.00000000	0.00000000	0.00000000
105.	-0.10290000	-0.15000001	-0.05500000	0.00000000	0.00000000	0.00000000
110.	-0.13500001	-0.22499999	-0.09500000	0.00000000	0.00000000	0.00000000
115.	-0.19459999	-0.27250001	-0.05250000	0.04000000	0.00000000	0.00000000
120.	-0.10020000	-0.31869999	0.01970000	0.10920000	0.00000000	0.00000000
125.	-0.03810000	-0.32400000	0.09170000	0.10410000	0.00000000	0.00000000
130.	0.08230000	-0.00680000	-0.04360000	0.20860000	0.00000000	0.00000000
135.	0.14710000	0.19370000	-0.05600000	0.26030000	0.00000000	0.00000000
140.	0.17749999	0.42620000	0.12000000	0.20600000	0.00000000	0.00000000
145.	0.14950000	0.36390001	0.11930000	0.13240001	0.00000000	0.00000000
150.	-0.01300000	-0.04900000	0.04200000	0.16060001	0.00000000	0.00000000
155.	0.00300000	-0.03600000	0.05950000	0.12350000	0.00000000	0.00000000
160.	0.00500000	-0.03210000	0.10000000	0.10400000	0.00000000	0.00000000
165.	0.00270000	-0.02170000	0.00720000	0.10330000	0.00000000	0.00000000
170.	0.00160000	-0.00870000	0.00970000	-0.00190000	0.00000000	0.00000000
175.	-0.01660000	-0.01770000	-0.00460000	-0.04770000	0.00000000	0.00000000
180.	-0.00120000	-0.01950000	-0.00110000	-0.02250000	0.00000000	0.00000000

FWC STIFFENER RINGS INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.10
PHI= 45.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
85.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
90.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
95.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
100.	0.00000000	-0.00150000	0.00000000	0.00000000	0.00000000	0.00000000
105.	-0.00360000	-0.06000000	0.00000000	0.00000000	0.00000000	0.00000000
110.	-0.05200000	-0.11500000	0.00000000	0.00000000	0.00000000	0.00000000
115.	-0.09500000	-0.10750000	0.00000000	0.00000000	0.00000000	0.00000000
120.	-0.07870000	-0.03940000	0.01400000	0.00180000	0.00000000	0.00000000
125.	-0.00010000	0.12120000	-0.00120000	-0.00560000	0.00000000	0.00000000
130.	0.01390000	0.09120000	-0.04530000	0.09590000	0.00000000	0.00000000
135.	-0.02060000	0.10650000	-0.09940000	0.21860000	0.00000000	0.00000000
140.	0.01850000	0.04320000	-0.05370000	0.01210000	0.00000000	0.00000000
145.	-0.03740000	0.05100000	-0.06550000	-0.05270000	0.00000000	0.00000000
150.	0.04180000	0.05230000	0.01540000	-0.03620000	0.00000000	0.00000000
155.	0.00180000	0.07760000	0.12490000	0.35460001	0.00000000	0.00000000
160.	-0.00360000	0.16260000	-0.05740000	-0.29059999	0.00000000	0.00000000
165.	0.00930000	0.00090000	0.02630000	0.04110000	0.00000000	0.00000000
170.	0.00490000	0.04170000	0.02200000	0.01620000	0.00000000	0.00000000
175.	0.00840000	0.04020000	-0.00080000	0.00200000	0.00000000	0.00000000
180.	0.01070000	0.04490000	0.00210000	0.04180000	0.00000000	0.00000000

ORIGINAL PAGE IS
OF POOR QUALITY

FWC STIFFENER RINGS INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.10
PHI= 90.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
85.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
90.	0.00000000	-0.02500000	0.00000000	0.00000000	0.00000000	0.00000000
95.	0.00000000	-0.04990000	0.00000000	0.00000000	0.00000000	0.00000000
100.	-0.00310000	-0.10500000	0.00000000	0.00000000	0.00000000	0.00000000
105.	-0.02450000	-0.15500000	0.00000000	0.00000000	0.00000000	0.00000000
110.	-0.05500000	-0.19499999	0.00000000	0.00000000	0.00000000	0.00000000
115.	-0.09500000	-0.24500000	0.00000000	0.00000000	0.00000000	0.00000000
120.	-0.12549999	-0.30030000	0.01660000	0.00520000	0.00000000	0.00000000
125.	-0.10860000	-0.20460001	0.03150000	0.02270000	0.00000000	0.00000000
130.	-0.13620000	0.40500000	0.02580000	0.06050000	0.00000000	0.00000000
135.	0.03540000	0.14749999	0.00300000	-0.14010000	0.00000000	0.00000000
140.	-0.02460000	0.03100000	0.00300000	-0.12819999	0.00000000	0.00000000
145.	-0.03250000	-0.93180000	0.00300000	-0.10110000	0.00000000	0.00000000
150.	0.01290000	0.05870000	0.05150000	-0.14360000	0.00000000	0.00000000
155.	0.06850000	0.07560000	-0.03540000	-0.17739999	0.00000000	0.00000000
160.	0.08260000	-0.08610000	0.02030000	-0.11090000	0.00000000	0.00000000
165.	0.02190000	-0.12360000	-0.02870000	-0.09780000	0.00000000	0.00000000
170.	0.02310000	-0.09210000	-0.04750000	-0.08070000	0.00000000	0.00000000
175.	-0.01160000	-0.14090000	-0.00560000	-0.02890000	0.00000000	0.00000000
180.	0.00020000	-0.05480000	-0.00010000	0.00840000	0.00000000	0.00000000

FWC STIFFENER RINGS INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.30
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
85.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
90.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
95.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
100.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
105.	0.00000000	-0.02000000	0.00000000	0.05000000	0.00000000	0.00000000
110.	0.00000000	-0.06000000	0.00000000	0.10000000	0.00000000	0.00000000
115.	0.03000000	-0.13000000	0.00000000	0.15000001	0.00000000	0.00000000
120.	0.06000000	-0.11000000	-0.00370000	0.17000000	0.00000000	0.00000000
125.	0.03550000	-0.08250000	-0.03270000	0.14250000	0.00000000	0.00000000
130.	0.03070000	-0.06640000	-0.06460000	0.12200000	0.00000000	0.00000000
135.	0.02320000	-0.01000000	-0.01010000	0.11010000	0.00000000	0.00000000
140.	0.10030000	0.30649999	0.01370000	0.13070001	0.00000000	0.00000000
145.	0.11190000	0.25860000	-0.02900000	0.07200000	0.00000000	0.00000000
150.	0.01750000	-0.09810000	-0.02970000	0.14470001	0.00000000	0.00000000
155.	-0.02430000	-0.14690000	0.14980000	0.27939999	0.00000000	0.00000000
160.	0.04130000	0.12610000	0.10550000	0.20710000	0.00000000	0.00000000
165.	0.01790000	0.00040000	0.02730000	0.06500000	0.00000000	0.00000000
170.	0.01270000	0.04090000	-0.01490000	0.00500000	0.00000000	0.00000000
175.	0.00410000	0.04220000	-0.00080000	-0.00510000	0.00000000	0.00000000
180.	-0.00330000	0.01180000	-0.00680000	-0.00670000	0.00000000	0.00000000

FWC STIFFENER RINGS INCREMENT

DREF=145 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.38
PHI= 45.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
85.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
90.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
95.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
100.	0.00000000	0.05000000	0.00000000	0.00000000	0.00000000	0.00000000
105.	0.02000000	0.10000000	0.00000000	0.00000000	0.00000000	0.00000000
110.	0.04000000	0.15000001	0.00000000	0.00000000	0.00000000	0.00000000
115.	0.05000000	0.14000000	0.00000000	0.00000000	0.00000000	0.00000000
120.	0.00580000	0.08450000	-0.02800000	-0.01270000	0.00000000	0.00000000
125.	-0.03380000	-0.01540000	-0.00550000	-0.01040000	0.00000000	0.00000000
130.	-0.07720000	-0.16440000	0.00350000	-0.01900000	0.00000000	0.00000000
135.	-0.00210000	-0.02670000	-0.00660000	-0.03880000	0.00000000	0.00000000
140.	-0.00990000	-0.00050000	0.02750000	-0.06760000	0.00000000	0.00000000
145.	-0.00560000	0.00630000	0.00530000	-0.02150000	0.00000000	0.00000000
150.	-0.02620000	-0.05690000	-0.00830000	-0.09950000	0.00000000	0.00000000
155.	-0.01440000	-0.01100000	0.00030000	0.00150000	0.00000000	0.00000000
160.	-0.00160000	-0.00160000	-0.04560000	0.05260000	0.00000000	0.00000000
165.	-0.00060000	0.04010000	-0.03510000	-0.06460000	0.00000000	0.00000000
170.	0.00080000	0.01540000	-0.00090000	0.01570000	0.00000000	0.00000000
175.	0.00320000	0.00710000	-0.00330000	0.00150000	0.00000000	0.00000000
180.	0.00000000	0.01080000	-0.00520000	0.01170000	0.00000000	0.00000000

ORIGINAL PAGE IS
OF POOR QUALITY

FWC STIFFENER RINGS INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.55%LREF (STA 1255.9)

MACH= 1.30
PHI= 90.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
85.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
90.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
95.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
100.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
105.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
110.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
115.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
120.	-0.04530000	-0.07230000	0.01090000	-0.00470000	0.00000000	0.00000000
125.	-0.08910000	-0.13930000	0.00410000	-0.00920000	0.00000000	0.00000000
130.	-0.04100000	-0.08970000	0.01440000	-0.01340000	0.00000000	0.00000000
135.	-0.09250000	-0.27430001	0.02880000	-0.03010000	0.00000000	0.00000000
140.	-0.03100000	-0.14500000	0.06000000	0.04000000	0.00000000	0.00000000
145.	-0.01150000	-0.08300000	0.03090000	0.01570000	0.00000000	0.00000000
150.	-0.03780000	-0.09650000	0.02890000	-0.11660000	0.00000000	0.00000000
155.	-0.01120000	-0.03580000	-0.01120000	-0.04630000	0.00000000	0.00000000
160.	-0.01090000	0.02840000	-0.05390000	-0.05710000	0.00000000	0.00000000
165.	-0.00060000	0.05350000	-0.01480000	-0.01400000	0.00000000	0.00000000
170.	-0.00950000	0.01250000	-0.00630000	0.02890000	0.00000000	0.00000000
175.	-0.00600000	0.02270000	0.00110000	0.03570000	0.00000000	0.00000000
180.	-0.00420000	0.02720000	0.00170000	0.03020000	0.00000000	0.00000000

ORIGINAL PAGE IS
OF POOR QUALITY

FUC STIFFENER RINGS INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 2.99
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
85.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
90.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
95.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
100.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
105.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
110.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
115.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
120.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
125.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
130.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
135.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
140.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
145.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
150.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
155.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
160.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
165.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
170.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
175.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
180.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000

FWC STIFFENER RINGS INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 2.99
PHI= 45.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
85.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
90.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
95.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
100.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
105.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
110.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
115.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
120.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
125.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
130.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
135.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
140.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
145.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
150.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
155.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
160.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
165.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
170.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
175.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
180.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000

FWC STIFFENER RINGS INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 2.99
PHI= 90.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
85.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
90.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
95.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
100.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
105.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
110.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
115.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
120.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
125.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
130.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
135.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
140.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
145.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
150.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
155.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
160.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
165.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
170.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
175.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
180.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000

ORIGINAL PAGE IS
OF POOR QUALITY

Steel Case Stiffener Ring Increments

STEEL CASE STIFFENER RINGS INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.60
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.00000000	0.00000000	0.11000000	0.00000000	0.00000000
80.	0.00000000	0.00000000	0.00000000	0.25999999	0.00000000	0.00000000
85.	0.00000000	-0.04000000	0.05000000	0.36000001	0.00000000	0.00000000
90.	0.05000000	-0.09000000	0.08000000	0.41999999	0.00000000	0.00000000
95.	0.10000000	-0.08000000	0.07000000	0.50000000	0.00000000	0.00000000
100.	0.07380000	-0.03110000	-0.01510000	0.45490000	0.00490000	0.00000000
105.	0.07710000	0.11900000	-0.14200000	0.35260001	-0.02950000	0.00000000
110.	-0.04870000	0.24500000	-0.16249999	-0.00190000	-0.02220000	0.00000000
115.	0.05890000	0.05100000	-0.39250001	0.41549999	-0.04010000	0.00000000
120.	0.02130000	0.15160000	-0.41870001	1.25000000	-0.04530000	0.00000000
125.	-0.19100000	-0.39930001	0.25040001	1.33749998	-0.06200000	0.00000000
130.	-0.16689999	-0.63830000	0.58740002	1.32000005	-0.09230000	0.00000000
135.	0.29899999	-0.69999999	0.41000000	1.20000005	-0.11460000	0.00000000
140.	0.12780000	-0.72000003	0.18189999	0.52469999	-0.13660000	0.00000000
145.	0.02690000	-0.49380001	0.36449999	-1.08029997	-0.14320000	0.00000000
150.	0.12510000	0.36690000	1.04970002	-0.63080001	-0.13440000	0.00000000
155.	0.10020000	0.24540000	0.97509998	0.46959999	-0.11800000	0.00000000
160.	0.00000000	0.08000000	0.23980001	0.32499999	-0.06200000	0.00000000
165.	-0.00570000	0.01650000	0.03550000	0.05410000	-0.00520000	0.00000000
170.	-0.01000000	-0.03490000	0.00130000	-0.00850000	0.01620000	0.00000000
175.	-0.00380000	-0.04390000	0.01230000	0.00490000	0.02420000	0.00000000
180.	-0.00290000	0.01890000	0.00900000	-0.04450000	0.02040000	0.00000000

STEEL CASE STIFFENER RINGS INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.90
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	-0.03000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.00000000	-0.05000000	0.00000000	0.00000000	0.00000000	0.00000000
85.	-0.02000000	-0.12000000	0.02000000	-0.05000000	0.00000000	0.00000000
90.	-0.05000000	-0.20000000	0.04000000	-0.10000000	0.00000000	0.00000000
95.	-0.07000000	-0.30000001	0.03000000	-0.05000000	0.01370000	0.00000000
100.	-0.07030000	-0.36330000	0.03000000	0.01410000	-0.00570000	0.00000000
105.	-0.02900000	-0.40930000	-0.01950000	0.13120000	-0.01740000	0.00000000
110.	0.06230000	-0.22229999	-0.01400000	0.07900000	-0.03220000	0.00000000
115.	0.10290000	-0.20270000	-0.03000000	0.03570000	-0.04750000	0.00000000
120.	0.10210000	-0.01870000	-0.10780000	0.19949999	-0.06440000	0.00000000
125.	0.05210000	0.22970000	-0.15780000	0.37760001	-0.08160000	0.00000000
130.	-0.06740000	0.38240001	-0.02340000	0.14030001	-0.07900000	0.00000000
135.	-0.09810000	0.78210002	-0.15960000	0.03020000	-0.09860000	0.00000000
140.	0.23280001	0.66700000	-0.34790000	0.29530001	-0.10940000	0.00000000
145.	0.00770000	0.31779999	-0.29429999	0.28080001	-0.10540000	0.00000000
150.	-0.10910000	0.20490000	-0.07090000	0.20000000	-0.09400000	0.00000000
155.	0.11970000	0.11540000	0.70179999	0.29280001	-0.04240000	0.00000000
160.	0.06630000	0.06320000	0.11200000	-0.19239999	-0.00040000	0.00000000
165.	-0.00160000	0.02670000	-0.01250000	-0.03180000	0.01040000	0.00000000
170.	0.00670000	-0.00100000	0.00700000	-0.00710000	0.01550000	0.00000000
175.	0.00250000	-0.07560000	0.01320000	-0.06200000	0.00860000	0.00000000
180.	-0.00180000	0.01430000	0.00750000	-0.02640000		

STEEL CASE STIFFENER RINGS INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.10
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
85.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
90.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
95.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
100.	0.00000000	0.05000000	0.00000000	0.00000000	0.00000000	0.00000000
105.	0.10000000	0.10000000	-0.05000000	0.00000000	0.00000000	0.00000000
110.	0.20999999	0.20000000	-0.12000000	0.00000000	0.00000000	0.00000000
115.	0.30000001	0.22000000	-0.15000001	0.00000000	0.00000000	0.00000000
120.	0.24660000	0.26330000	-0.11560000	0.03050000	-0.04500000	0.00000000
125.	0.14850000	0.22460000	-0.01920000	0.00610000	-0.05840000	0.00000000
130.	0.24680001	0.53269999	-0.10610000	0.18099999	-0.09110000	0.00000000
135.	0.20180000	0.42390001	-0.21250001	0.43759999	-0.09920000	0.00000000
140.	0.04520000	0.46770000	-0.13180000	0.31860000	-0.08920000	0.00000000
145.	-0.05320000	0.26600000	0.01160000	-0.12350000	-0.11430000	0.00000000
150.	-0.03110000	0.24150001	-0.37189999	0.63919997	-0.11800000	0.00000000
155.	0.06250000	0.27059999	-0.09660000	0.05290000	-0.11650000	0.00000000
160.	0.06290000	0.19630000	0.16030000	-1.17590005	-0.10520000	0.00000000
165.	0.03100000	0.22080000	0.23430000	0.41293959	-0.05500000	0.00000000
170.	-0.01270000	0.03400000	-0.01460000	-0.00650000	-0.02170000	0.00000000
175.	0.00220000	0.02010000	0.01300000	-0.00100000	0.00330000	0.00000000
180.	-0.00200000	-0.01260000	0.00550000	-0.02130000	0.01830000	0.00000000

STEEL CASE STIFFENER RINGS INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.30
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
85.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
90.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
95.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
100.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
105.	0.00000000	-0.13000000	-0.02000000	0.02000000	0.00000000	0.00000000
110.	0.00000000	-0.20600000	-0.05000000	0.05000000	0.00000000	0.00000000
115.	0.00000000	-0.19060001	-0.10000000	0.08000000	0.00000000	0.00000000
120.	0.02340000	-0.10600000	-0.08020000	0.08040000	-0.03370000	0.00000000
125.	0.10100000	0.19280000	-0.05510000	0.07870000	-0.04710000	0.00000000
130.	0.03920000	0.17520000	-0.03240000	0.01540000	-0.06100000	0.00000000
135.	0.09100000	-0.04190000	-0.01700000	-0.01680000	-0.08400000	0.00000000
140.	-0.05760000	-0.02250000	-0.06470000	0.24690001	-0.06810000	0.00000000
145.	-0.13560000	-0.11600000	0.01280000	0.12450000	-0.08780000	0.00000000
150.	0.10650000	0.40910000	0.00000000	0.14530000	-0.11220000	0.00000000
155.	0.00150000	0.27110001	-0.05710000	0.21400000	-0.11200000	0.00000000
160.	-0.01750000	0.16970000	-0.11400000	0.25000000	-0.08310000	0.00000000
165.	0.01150000	0.22000000	-0.10000000	0.22170000	-0.04170000	0.00000000
170.	-0.00340000	0.05800000	-0.05400000	-0.05950000	-0.01070000	0.00000000
175.	0.00880000	0.04340000	-0.00550000	-0.00920000	0.00960000	0.00000000
180	0.00820000	0.01050000	-0.00270000	-0.01600000	0.02200000	0.00000000

ORIGINAL PAGE IS OF POOR QUALITY

STEEL CASE STIFFENER RINGS INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 2.99
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
85.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
90.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
95.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
100.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
105.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
110.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
115.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
120.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
125.	0.00000000	0.00000000	0.00000000	0.00000000	-0.05000000	0.00000000
130.	0.00000000	0.00000000	0.00000000	0.00000000	-0.10000000	0.00000000
135.	0.00000000	0.00000000	0.00000000	0.00000000	-0.13000000	0.00000000
140.	0.00000000	0.00000000	0.00000000	0.00000000	-0.12290000	0.00000000
145.	0.00000000	0.00000000	0.00000000	0.00000000	-0.08720000	0.00000000
150.	0.00000000	0.00000000	0.00000000	0.00000000	-0.05920000	0.00000000
155.	0.00000000	0.00000000	0.00000000	0.00000000	-0.05460000	0.00000000
160.	0.00000000	0.00000000	0.00000000	0.00000000	-0.04830000	0.00000000
165.	0.00000000	0.00000000	0.00000000	0.00000000	-0.03780000	0.00000000
170.	0.00000000	0.00000000	0.00000000	0.00000000	-0.01720000	0.00000000
175.	0.00000000	0.00000000	0.00000000	0.00000000	-0.00060000	0.00000000
180.	0.00000000	0.00000000	0.00000000	0.00000000	-0.00230000	0.00000000

ORIGINAL PAGE IS
OF POOR QUALITY

FWC ET Attach Ring Increments

FWC ET ATTACH RING INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.60
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.10000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.47999999	0.00000000	0.10000000	0.00000000	0.00000000
80.	-0.02000000	0.89999998	0.00000000	0.34999999	0.00000000	0.00000000
85.	-0.07000000	1.10000002	-0.05000000	0.60000002	-0.05000000	0.00000000
90.	-0.10000000	1.20000005	-0.18000001	0.98000002	-0.08000000	0.00000000
95.	-0.13000000	1.10000002	-0.31000000	1.60000002	-0.06000000	0.00000000
100.	-0.15279999	1.06120002	-0.54769999	2.43330002	-0.02070000	0.00000000
105.	-0.17050000	0.53820002	-0.79939997	3.02000011	0.05130000	0.00000000
110.	-0.48249999	-0.48840001	-0.19620000	3.04999995	0.07900000	0.00000000
115.	-0.09930000	0.46280000	-0.07460000	2.94720006	0.06160000	0.00000000
120.	0.16410001	1.16410005	-0.40210000	2.87500000	0.01270000	0.00000000
125.	0.24680001	1.63160002	-0.98820001	1.63600001	-0.04180000	0.00000000
130.	-0.06950000	0.95150000	-0.33190000	0.23440000	-0.06710000	0.00000000
135.	0.01110000	0.67519999	0.95609999	-0.31369999	-0.06840000	0.00000000
140.	-0.22640000	0.32690001	-0.10880000	-0.93760002	-0.11280000	0.00000000
145.	-0.34930000	-0.04410000	0.29330000	-1.96500003	-0.11630000	0.00000000
150.	-0.33280000	-0.31880000	0.01130000	-1.81400001	-0.12350000	0.00000000
155.	-0.06930000	-0.13550000	0.09170000	-1.36080003	-0.15640000	0.00000000
160.	0.16550000	-0.00240000	0.42080000	-0.26570001	-0.14540000	0.00000000
165.	0.06490000	-0.05140000	0.18080001	0.01200000	-0.06210000	0.00000000
170.	-0.01610000	-0.06760000	-0.02040000	0.01550000	-0.00680000	0.00000000
175.	-0.01690000	-0.05050000	0.02360000	0.04100000	0.04790000	0.00000000
180.	-0.01050000	-0.02580000	0.03380000	0.06240000	0.04390000	0.00000000

ORIGINAL PAGE IS
OF POOR QUALITY

FWC ET ATTACH RING INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.60
PHI= 45.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	-0.03000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
85.	-0.11000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
90.	-0.16000000	0.00000000	-0.05000000	-0.02000000	0.00000000	0.00000000
95.	-0.19000000	0.00000000	-0.10000000	-0.06000000	0.00000000	0.00000000
100.	-0.16779959	-0.02240000	-0.20649999	-0.15719999	-0.04720000	0.00000000
105.	-0.15870000	-0.05930000	-0.33039999	-0.25350000	-0.05790000	0.00000000
110.	-0.31530000	0.10000000	-0.53130001	-0.38880000	0.02620000	0.00000000
115.	0.01450000	0.54530001	-0.67549998	0.56260002	-0.01400000	0.00000000
120.	0.15350001	1.44449997	-1.21309996	0.52500001	-0.05550000	0.00000000
125.	0.01180000	1.84370005	-1.15939999	0.48320001	-0.02880000	0.00000000
130.	-0.14470001	1.20239997	0.22880000	0.43790001	-0.04420000	0.00000000
135.	-0.03950000	0.85710001	0.67360002	0.68459998	-0.06890000	0.00000000
140.	-0.13280000	0.66820002	0.03700000	-0.09000000	-0.13860001	0.00000000
145.	-0.13440000	0.73900002	-0.95950001	0.77780002	-0.14540000	0.00000000
150.	-0.16570000	0.09330000	-0.66329998	-0.14210001	-0.14040001	0.00000000
155.	-0.11660000	-0.20450000	-0.51139998	-0.21950001	-0.15070000	0.00000000
160.	-0.03240000	-0.27370000	-0.73940003	-0.03290000	-0.12000001	0.00000000
165.	0.05260000	-0.12770000	-0.36649999	-0.44769999	-0.05830000	0.00000000
170.	0.02020000	-0.05950000	-0.01970000	-0.03880000	-0.00180000	0.00000000
175.	-0.00360000	-0.04490000	-0.00440000	-0.00390000	0.04460000	0.00000000
180.	-0.00830000	-0.04910000	-0.00480000	0.00540000	0.05020000	0.00000000

PAGE IS
OF POOR QUALITY

FWC ET ATTACH RING INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.60
PHI= 90.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.05000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.16000001	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.40000001	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.69999999	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	1.00000004	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.00000000	1.45000005	0.00000000	0.00000000	0.00000000	0.00000000
85.	0.00000000	1.70000005	0.00000000	0.00000000	0.00000000	0.00000000
90.	0.00000000	1.79999995	0.00000000	0.00000000	0.00000000	0.00000000
95.	-0.05000000	1.70000005	-0.05000000	0.30000001	0.00000000	0.00000000
100.	-0.16210000	1.50279999	-0.14080000	0.60030001	0.03900000	0.00000000
105.	-0.41650001	0.99809999	-0.41659999	1.30480003	0.07520000	0.00000000
110.	0.07810000	0.69999999	0.19760001	1.03839994	0.02140000	0.00000000
115.	-0.27649999	0.15440001	-0.17330000	-0.07190000	0.02030000	0.00000000
120.	-0.36809999	0.07040000	-0.60900003	0.23420000	-0.05580000	0.00000000
125.	-0.19170000	0.10070000	-0.67589998	0.66540003	-0.06680000	0.00000000
130.	-0.06090000	0.13880000	-0.35229999	0.64510000	-0.07610000	0.00000000
135.	0.18600000	0.04240000	-0.32769999	0.78869998	-0.10540000	0.00000000
140.	0.15369999	0.13270000	-0.26719999	0.53270000	-0.13150001	0.00000000
145.	-0.06220000	-0.04800000	-0.25540000	0.74449998	-0.14100000	0.00000000
150.	-0.04810000	-0.23970000	-0.23870000	0.96850002	-0.14920001	0.00000000
155.	0.04580000	-0.31310001	-0.63160002	0.59350003	-0.15210000	0.00000000
160.	0.11140000	-0.48170000	-0.67240000	-0.13040000	-0.14150000	0.00000000
165.	0.09670000	-0.26050001	-0.27579999	-0.23819999	-0.07820000	0.00000000
170.	-0.01870000	-0.12210000	0.04080000	-0.02690000	-0.02440000	0.00000000
175.	-0.02920000	-0.06040000	0.00710000	-0.00230000	0.02690000	0.00000000
180.	-0.03370000	-0.08190000	0.00670000	-0.01920000	0.04030000	0.00000000

ORIGINAL PAGE IS
OF POOR QUALITY

FWC ET ATTACH RING INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.90
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.05000000	0.00000000	0.00000000
65.	0.00000000	-0.05000000	0.00000000	0.12000000	0.00000000	0.00000000
70.	0.00000000	-0.15000001	0.00000000	0.20999999	0.00000000	0.00000000
75.	0.00000000	-0.40000001	0.00000000	0.40000001	0.00000000	0.00000000
80.	0.00000000	-0.79000002	0.00000000	0.51999998	0.02000000	0.00000000
85.	-0.10000000	-1.10000002	0.05000000	0.60000002	0.05000000	0.00000000
90.	-0.16000000	-1.14999998	0.08000000	0.50000000	0.05000000	0.00000000
95.	-0.20000000	-1.00000000	0.10000000	0.35360000	0.03360000	0.00000000
100.	-0.13050000	-0.69630003	0.09380000	0.07490000	0.00990000	0.00000000
105.	-0.04960000	-0.20750000	0.02020000	0.09330000	-0.00100000	0.00000000
110.	-0.03710000	-0.06410000	-0.01560000	0.14760000	-0.00900000	0.00000000
115.	-0.04360000	-0.09020000	-0.04550000	0.01860000	-0.03200000	0.00000000
120.	-0.05440000	0.02860000	0.09540000	-0.02140000	-0.04510000	0.00000000
125.	-0.04390000	0.35229999	0.12590000	0.01440000	-0.07220000	0.00000000
130.	-0.07370000	0.59219998	0.12600000	-0.02930000	-0.12090000	0.00000000
135.	-0.16550000	1.00960004	0.15000001	-0.30430001	-0.08410000	0.00000000
140.	-0.10730000	0.75669998	-0.66740000	-0.87059999	-0.09460000	0.00000000
145.	-0.21050000	0.36260000	0.08150000	-1.58369994	-0.11540000	0.00000000
150.	-0.31240001	-0.03960000	0.36899999	-1.31770003	-0.12670000	0.00000000
155.	-0.19280000	-0.29600000	0.84960002	0.20320000	-0.16500001	0.00000000
160.	0.19530000	-0.25819999	0.89999998	-0.11900000	-0.06020000	0.00000000
165.	0.02950000	0.05070000	-0.09180000	0.05880000	0.01240000	0.00000000
170.	-0.00750000	0.02400000	-0.01160000	0.02710000	0.05790000	0.00000000
175.	0.00540000	-0.05090000	-0.00590000	-0.01260000	0.05440000	0.00000000
180.	0.01240000	0.00010000	0.00440000			

ORIGINAL PAGE IS
OF POOR QUALITY

FWC ET ATTACH RING INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.90
PHI= 45.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.05000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.10000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.20000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.00000000	0.32000001	0.00000000	0.00000000	0.00000000	0.00000000
85.	0.05000000	0.40000001	0.00000000	-0.05000000	0.00000000	0.00000000
90.	0.12000000	0.38000000	0.00000000	-0.10000000	0.00000000	0.00000000
95.	0.14000000	0.34999999	0.00000000	-0.12000000	0.00000000	0.00000000
100.	0.09270000	0.22430000	-0.02420000	-0.08820000	0.01910000	0.00000000
105.	-0.02850000	0.02320000	-0.05540000	-0.02650000	0.01590000	0.00000000
110.	-0.02630000	-0.10640000	-0.01230000	0.07030000	0.01070000	0.00000000
115.	0.02500000	0.00260000	-0.02070000	-0.00100000	-0.00440000	0.00000000
120.	0.01420000	0.20580000	-0.08600000	0.33149999	-0.00930000	0.00000000
125.	-0.02500000	0.43370000	-0.05850000	0.22059999	-0.05120000	0.00000000
130.	-0.05240000	0.80180001	-0.46630001	0.11420000	-0.07290000	0.00000000
135.	0.04610000	1.58280003	-0.63300002	-0.03160000	-0.09480000	0.00000000
140.	-0.13100000	1.12140000	-0.60000002	0.05950000	-0.10160000	0.00000000
145.	-0.23999999	0.67580003	-1.20889997	1.49940002	-0.13190000	0.00000000
150.	-0.24840000	0.10740000	-0.38499999	-0.08820000	-0.15380000	0.00000000
155.	-0.11570000	-0.23830000	-0.69459999	-0.91530001	-0.17950000	0.00000000
160.	0.07010000	-0.40630001	-0.45190001	-0.40279999	-0.14920001	0.00000000
165.	0.05790000	0.04080000	-0.25350001	-0.31560001	-0.04260000	0.00000000
170.	0.00060000	0.00560000	-0.00240000	-0.00540000	0.01740000	0.00000000
175.	-0.00910000	-0.06740000	-0.00720000	-0.00050000	0.06920000	0.00000000
180.	-0.00730000	-0.00070000	-0.00600000	0.01580000	0.03680000	0.00000000

ORIGINAL PAGE IS
OF POOR QUALITY

FWC ET ATTACH RING INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.90
PHI= 90.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
85.	-0.05000000	0.00000000	0.00000000	0.05000000	0.00000000	0.00000000
90.	-0.08000000	0.00000000	-0.02000000	0.08000000	0.00000000	0.00000000
95.	-0.11000000	0.00000000	-0.04000000	0.10000000	0.00000000	0.00000000
100.	-0.06780000	0.00000000	-0.05750000	0.12770000	0.01780000	0.00000000
105.	0.06970000	-0.02230000	-0.04360000	0.10570000	-0.00060000	0.00000000
110.	0.07190000	0.03510000	-0.04870000	0.07170000	-0.00780000	0.00000000
115.	-0.02700000	-0.09310000	-0.05580000	0.04450000	-0.00950000	0.00000000
120.	0.01420000	0.02320000	-0.02720000	0.01380000	-0.04070000	0.00000000
125.	-0.09530000	0.12220000	-0.10770000	0.06220000	-0.05070000	0.00000000
130.	-0.06620000	0.22840001	-0.10460000	0.12570000	-0.08190000	0.00000000
135.	-0.11070000	0.40149999	-0.14200000	0.25590000	-0.14470001	0.00000000
140.	-0.07800000	0.36469999	0.11350000	0.03720000	-0.14970000	0.00000000
145.	-0.07450000	0.47510001	-0.14040001	0.37560001	-0.15250000	0.00000000
150.	-0.13550000	-0.17680000	-0.42910001	0.86799997	-0.16380000	0.00000000
155.	0.06560000	-0.30649999	-0.49160001	0.69639999	-0.20060000	0.00000000
160.	0.39660001	-0.25050001	-0.68849999	0.57450002	-0.18780001	0.00000000
165.	0.09750000	-0.06600000	-0.14489999	-0.24180000	-0.06530000	0.00000000
170.	-0.01370000	0.00650000	0.01660000	0.03480000	0.00230000	0.00000000
175.	-0.00680000	-0.00150000	-0.00440000	-0.00610000	0.04250000	0.00000000
180.	0.00210000	-0.01710000	-0.00150000	-0.01610000	0.03460000	0.00000000

ORIGINAL PAGE IS
OF POOR QUALITY

FWC ET ATTACH RING INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.10
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
85.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
90.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
95.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
100.	0.05000000	0.08000000	-0.02000000	0.00000000	0.00000000	0.00000000
105.	0.10000000	0.15000001	-0.10000000	0.00000000	0.00000000	0.00000000
110.	0.20000000	0.28000000	-0.15000001	0.00000000	0.00000000	0.00000000
115.	0.19000000	0.41999999	-0.10000000	0.00000000	0.00000000	0.00000000
120.	0.12690001	0.54869998	0.00890000	-0.02410000	-0.04030000	0.00000000
125.	0.04540000	0.64600003	0.12420000	-0.04700000	-0.05180000	0.00000000
130.	-0.04010000	0.51370001	0.25380000	-0.14770000	-0.06420000	0.00000000
135.	-0.02370000	0.58600003	0.30120000	-0.10400000	-0.07910000	0.00000000
140.	0.00070000	0.80849999	0.38839999	-0.16859999	-0.10200000	0.00000000
145.	-0.20890000	0.29570001	0.41999999	-0.15000001	-0.11410000	0.00000000
150.	-0.25880000	0.07710000	-0.25189999	-0.10000000	-0.11300000	0.00000000
155.	-0.26310000	-0.14080000	-0.07440000	-0.58719999	-0.10380000	0.00000000
160.	-0.09390000	0.12500000	0.96200001	0.56269997	-0.14210001	0.00000000
165.	0.13270000	0.29760000	1.70140004	2.50680003	-0.36620000	0.00000000
170.	0.24550000	0.20270000	0.53649998	0.72259998	-0.11310000	0.00000000
175.	0.03860000	0.05230000	-0.01980000	0.10600000	-0.02610000	0.00000000
180.	0.01270000	-0.00760000	-0.00700000	-0.02110000	0.00940000	0.00000000

FWC ET ATTACH RING INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.10
PHI= 45.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
85.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
90.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
95.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
100.	0.00000000	0.00000000	0.00000000	0.05000000	0.00000000	0.00000000
105.	0.00000000	0.00000000	0.00000000	0.10000000	0.00000000	0.00000000
110.	0.00000000	0.00000000	0.00000000	0.15000001	0.00000000	0.00000000
115.	0.05000000	0.12000000	-0.01080000	0.02520000	-0.03720000	0.00000000
120.	0.04860000	0.29740000	0.02490000	-0.06020000	-0.06050000	0.00000000
125.	0.05750000	0.56999999	0.08080000	-0.13510001	-0.07990000	0.00000000
130.	0.04080000	0.54560000	0.11170000	-0.13310000	-0.08020000	0.00000000
135.	-0.08770000	0.35299999	0.07960000	-0.09250000	-0.08470000	0.00000000
140.	-0.21550000	0.25000000	0.12000000	0.16390000	-0.09370000	0.00000000
145.	-0.18650000	0.26789999	0.27970001	0.30090001	-0.09260000	0.00000000
150.	-0.21870001	0.27950001	0.45280001	0.20030000	-0.05120000	0.00000000
155.	-0.18000001	0.10000000	-1.25999999	-3.91140008	-0.07160000	0.00000000
160.	-0.13000000	0.02500000	-1.18649995	-2.86969995	-0.14560001	0.00000000
165.	-0.07430000	0.06200000	-0.47209999	-0.57560003	-0.08990000	0.00000000
170.	0.18850000	0.11550000	-0.01450000	0.01300000	-0.01790000	0.00000000
175.	0.02190000	0.04570000	0.00310000	0.00900000	-0.01010000	0.00000000
180.	0.00490000	-0.01040000				

ORIGINAL PAGE IS
OF POOR QUALITY

FWC ET ATTACH RING INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.10
PHI= 90.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
85.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
90.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
95.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
100.	0.05000000	0.05000000	0.00000000	0.00000000	0.00000000	0.00000000
105.	0.10000000	0.12000000	0.00000000	0.00000000	0.00000000	0.00000000
110.	0.15000001	0.18000001	0.00000000	0.00000000	0.00000000	0.00000000
115.	0.10000000	0.12000000	0.00000000	0.00000000	0.00000000	0.00000000
120.	-0.03170000	0.02300000	-0.01360000	0.02060000	-0.05060000	0.00000000
125.	-0.14579999	-0.08080000	-0.01250000	0.00310000	-0.05850000	0.00000000
130.	-0.07540000	0.06400000	-0.00360000	-0.02560000	-0.08080000	0.00000000
135.	-0.00750000	0.47150001	-0.14380001	0.12290000	-0.11620000	0.00000000
140.	-0.09110000	0.33919999	-0.21699999	0.16520000	-0.11480000	0.00000000
145.	-0.13429999	0.29879999	0.15160000	0.22000000	-0.12930000	0.00000000
150.	-0.33910000	-0.17290001	-0.30779999	0.23999999	-0.11460000	0.00000000
155.	-0.48539999	-0.53909999	-0.55400002	0.23000000	-0.08790000	0.00000000
160.	-0.30039999	-0.13600001	0.95130002	-0.02520000	-0.12560000	0.00000000
165.	0.12070000	0.05950000	-1.06630003	-1.79750001	-0.17360000	0.00000000
170.	0.33480000	0.06090000	-0.67060000	-1.09720004	-0.08620000	0.00000000
175.	0.01940000	0.01950000	0.01750000	-0.03660000	-0.02500000	0.00000000
180.	-0.01080000	-0.01010000	0.00260000	-0.00100000	-0.00320000	0.00000000

ORIGINAL PAGE IS
OF POOR QUALITY

FWC ET ATTACH RING INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.30
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
85.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
90.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
95.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
100.	0.06000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
105.	0.10000000	0.05000000	0.00000000	0.00000000	0.00000000	0.00000000
110.	0.17000000	0.10000000	0.00000000	0.00000000	0.00000000	0.00000000
115.	0.15000001	0.12000000	0.00000000	0.00000000	0.00000000	0.00000000
120.	0.02550000	0.10410000	0.00000000	0.00000000	0.00000000	0.00000000
125.	-0.05780000	0.10050000	0.05320000	0.07530000	-0.04330000	0.00000000
130.	-0.06290000	0.48789999	0.09140000	0.04610000	-0.05670000	0.00000000
135.	-0.06530000	0.51730001	0.10650000	-0.00830000	-0.06650000	0.00000000
140.	-0.08050000	0.57800001	0.19859999	-0.05240000	-0.09430000	0.00000000
145.	-0.09210000	0.38360000	0.21830000	-0.25299999	-0.11010000	0.00000000
150.	-0.14060000	0.15050000	0.08730000	-0.12670000	-0.12580000	0.00000000
155.	-0.26719999	-0.21890000	-0.06430000	-0.10000000	-0.12270000	0.00000000
160.	-0.19730000	0.37950000	-0.60570002	-0.14839999	-0.11010000	0.00000000
165.	-0.10340000	0.13630000	1.04449999	-0.15009999	-0.10660000	0.00000000
170.	0.25119999	0.20100001	1.36070001	2.06380010	-0.28259999	0.00000000
175.	0.04130000	0.01440000	0.66450000	0.93519998	-0.11410000	0.00000000
180.	0.00750000	-0.01290000	0.01060000	0.05690000	-0.03440000	0.00000000
			-0.00670000	0.00230000	0.01490000	0.00000000

ORIGINAL PAGE IS
OF POOR QUALITY

FWC ET ATTACH RING INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.30
PHI= 45.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
85.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
90.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
95.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
100.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
105.	0.07000000	0.05000000	0.00000000	0.00000000	0.00000000	0.00000000
110.	0.15000001	0.10000000	0.00000000	0.00000000	0.00000000	0.00000000
115.	0.19000000	0.18000001	0.00000000	0.00000000	0.00000000	0.00000000
120.	0.06680000	0.16419999	0.00920000	-0.02880000	-0.03770000	0.00000000
125.	-0.06610000	0.13789999	0.01170000	0.00550000	-0.04200000	0.00000000
130.	-0.08890000	0.22720000	0.01000000	0.00030000	-0.05300000	0.00000000
135.	-0.03120000	0.34950000	-0.02720000	0.00170000	-0.07250000	0.00000000
140.	-0.04190000	0.40000001	-0.01000000	-0.01120000	-0.08720000	0.00000000
145.	-0.03680000	0.36140001	-0.07060000	0.10780001	-0.09300000	0.00000000
150.	-0.14970000	0.18140000	-0.14190000	0.20870000	-0.08380000	0.00000000
155.	-0.29879999	-0.12210000	-0.30000001	-0.16800000	-0.06930000	0.00000000
160.	-0.36000001	-0.34000000	-0.73809999	-0.75000000	-0.08430000	0.00000000
165.	-0.18179999	-0.04460000	-1.58780003	-3.14150000	-0.13100000	0.00000000
170.	0.19840001	0.16390000	-0.60229999	-0.89300001	-0.11230000	0.00000000
175.	0.03720000	-0.01350000	-0.05370000	-0.03400000	-0.04210000	0.00000000
180.	0.00240000	-0.03230000	0.00340000	-0.00300000	-0.01430000	0.00000000

FWC ET ATTACH RING INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.30
PHI= 90.

ALPHA	CN	CM	CY	CYN	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
85.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
90.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
95.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
100.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
105.	0.00000000	-0.07000000	0.00000000	0.00000000	0.00000000	0.00000000
110.	0.00000000	-0.11000000	0.00000000	0.00000000	0.00000000	0.00000000
115.	0.00000000	-0.12000000	0.00000000	0.00000000	0.00000000	0.00000000
120.	-0.01290000	0.06370000	-0.02840000	0.01540000	-0.04200000	0.00000000
125.	-0.01110000	0.29640001	-0.04380000	-0.00230000	-0.07130000	0.00000000
130.	-0.03310000	0.48640000	-0.07360000	0.04130000	-0.09070000	0.00000000
135.	-0.07050000	0.28150001	-0.08250000	0.03190000	-0.10350000	0.00000000
140.	0.00230000	0.56590003	-0.05800000	0.09060000	-0.13020000	0.00000000
145.	-0.06280000	0.36539999	-0.08360000	0.32259999	-0.12710001	0.00000000
150.	-0.15300000	0.07960000	-0.07280000	0.37259999	-0.11050000	0.00000000
155.	-0.26629999	-0.16290000	0.04050000	0.65240002	-0.11190000	0.00002200
160.	-0.34490001	-0.39399999	0.45300001	0.75129998	-0.12620001	0.00000000
165.	-0.09120000	0.02740000	-0.63569999	-1.48930001	-0.19290000	0.00000000
170.	0.23800001	0.05260000	-0.49520001	-0.84130001	-0.11510000	0.00000000
175.	0.02700000	-0.02320000	0.01170000	-0.05060000	-0.03770000	0.00000000
180.	-0.01430000	-0.03030000	0.01470000	0.00520000	0.00230000	0.00000000

ORIGINAL PAGE IS
OF POOR QUALITY

FWC ET ATTACH RING INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 2.95
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	[illegible]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	[illegible]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	[illegible]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	[illegible]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	[illegible]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	[illegible]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	[illegible]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	[illegible]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	[illegible]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	[illegible]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
85.	[illegible]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
90.	[illegible]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
95.	[illegible]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
100.	[illegible]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
105.	[illegible]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
110.	[illegible]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
115.	[illegible]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
120.	[illegible]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
125.	[illegible]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
130.	[illegible]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
135.	[illegible]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
140.	0.01680000	-0.01580000	-0.00110000	-0.02920000	-0.10740000	0.00000000
145.	0.00930000	-0.00200000	0.01020000	-0.03340000	-0.10220000	0.00000000
150.	-0.03900000	-0.11560000	0.01650000	-0.05810000	-0.08310000	0.00000000
155.	-0.03240000	-0.10170000	0.00940000	-0.03710000	-0.06020000	0.00000000
160.	-0.01370000	-0.04190000	-0.04970000	-0.12170000	-0.04730000	0.00000000
165.	-0.00340000	0.01780000	-0.01100000	-0.05060000	-0.06090000	0.00000000
170.	-0.00340000	0.07270000	0.09730000	0.15730000	-0.07750000	0.00000000
175.	0.01110000	0.01050000	0.03380000	0.00300000	-0.09070000	0.00000000
180.	-0.02550000	-0.00450000	0.01490000	-0.02730000	-0.10410000	0.00000000

ORIGINAL PAGE IS
OF POOR QUALITY

FWC ET ATTACH RING INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 2.99
PHI= 45.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
85.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
90.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
95.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
100.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
105.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
110.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
115.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
120.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
125.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
130.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
135.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
140.	0.02990000	0.00290000	-0.00550000	0.01510000	-0.06910000	0.00000000
145.	0.00950000	0.04220000	0.00310000	-0.02260000	-0.06660000	0.00000000
150.	-0.02970000	-0.03080000	-0.00180000	-0.02500000	-0.05070000	0.00000000
155.	-0.02180000	0.02750000	0.01220000	0.00900000	-0.03910000	0.00000000
160.	-0.03680000	0.05590000	0.02200000	0.00170000	-0.02500000	0.00000000
165.	-0.00280000	0.07780000	-0.00430000	-0.02030000	-0.03310000	0.00000000
170.	-0.01480000	0.04780000	-0.06300000	-0.12809999	-0.04900000	0.00000000
175.	-0.00320000	0.03200000	0.01190000	0.01890000	-0.08070000	0.00000000
180.	-0.01650000	0.03190000	-0.00440000	0.00040000	-0.09340000	0.00000000

FWC ET ATTACH RING INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 2.99
PHI= 90.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
85.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
90.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
95.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
100.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
105.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
110.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
115.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
120.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
125.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
130.	0.00000000	0.00000000	0.00000000	0.00000000	-0.03000000	0.00000000
135.	0.00000000	0.00000000	0.00000000	0.00000000	-0.10000000	0.00000000
140.	0.05040000	0.02470000	-0.03940000	-0.01000000	-0.10930000	0.00000000
145.	0.04300000	0.07350000	-0.04410000	-0.00060000	-0.10590000	0.00000000
150.	0.04650000	0.13100000	-0.05840000	0.01230000	-0.09600000	0.00000000
155.	0.03890000	0.14659999	-0.01850000	-0.00000000	-0.06610000	0.00000000
160.	0.01300000	0.06440000	0.10280000	0.12890001	-0.05420000	0.00000000
165.	0.01850000	0.10610000	0.17280000	0.38945999	-0.05230000	0.00000000
170.	-0.02260000	0.04020000	-0.06540000	-0.13869999	-0.06340000	0.00000000
175.	0.00220000	0.02720000	-0.03660000	-0.02330000	-0.08570000	0.00000000
180.	-0.01170000	0.01660000	-0.01150000	0.02170000	-0.09520000	0.00000000

Steel Case ET Attach Ring Increments

STEEL CASE ET ATTACH RING INCREMENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.60
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.20000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.68000001	0.00000000	0.05000000	0.00000000	0.00000000
80.	0.00000000	1.04999995	-0.05000000	0.19000000	0.00000000	0.00000000
85.	0.00000000	1.29999995	-0.12000000	0.55000001	0.00000000	0.00000000
90.	-0.02000000	1.39999998	-0.20000000	1.25000000	0.00000000	0.00000000
95.	-0.04000000	1.35000002	-0.38000000	1.69999998	0.00000000	0.00000000
100.	-0.10570000	1.11459994	-0.54949999	2.70000005	-0.01190000	0.00000000
105.	-0.18430001	0.48570001	-0.77429998	2.81999993	0.04870000	0.00000000
110.	-0.49149999	-0.52929997	-0.31290001	2.82999992	0.08440003	0.00000000
115.	-0.10540000	0.46939999	-0.26789999	2.76690006	0.05980000	0.00000000
120.	0.28999999	1.14470005	-0.54799998	2.49329996	-0.01060000	0.00000000
125.	0.39969999	1.61020005	-1.10119998	1.70299995	-0.06780000	0.00000000
130.	0.10060000	1.20239997	-0.99839997	0.69929999	-0.09350000	0.00000000
135.	0.13680001	0.71820003	0.99080002	-0.43000001	-0.08960000	0.00000000
140.	-0.14790000	0.12470000	-0.13630000	-1.53989995	-0.14839999	0.00000000
145.	-0.30489999	-0.16140001	0.32089999	-1.76699996	-0.12080000	0.00000000
150.	-0.28850001	-0.34889999	0.32380000	-1.32729995	-0.09400000	0.00000000
155.	-0.10060000	-0.14260000	0.11470000	-0.80389999	-0.11520000	0.00000000
160.	0.09190000	-0.06410000	0.10660000	-0.54210001	-0.11030000	0.00000000
165.	0.09620000	-0.00420000	0.13140000	0.08970000	-0.05970000	0.00000000
170.	0.02410000	-0.03020000	-0.02030000	0.04320000	-0.00310000	0.00000000
175.	-0.00590000	-0.02900000	0.01580000	0.03300000	0.03400000	0.00000000
180.	0.01160000	0.02200000	0.01870000	0.02410000	0.04560000	0.00000000

STEEL CASE ET ATTACH RING INCREMENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.60
PHI= 45.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.00000000	0.00000000	0.00000000	0.05000000	0.00000000	0.00000000
85.	0.00000000	0.05000000	0.00000000	0.15000001	0.00000000	0.00000000
90.	0.00000000	0.10000000	0.00000000	0.20999999	0.00000000	0.00000000
95.	-0.05000000	0.15000001	0.05000000	0.25000000	0.00000000	0.00000000
100.	-0.09410000	0.11470000	-0.14460000	0.23170000	-0.01240000	0.00000000
105.	-0.19750001	-0.05960000	-0.26330000	0.06980000	0.00690000	0.00000000
110.	-0.30000001	-0.14960000	-0.47040001	0.09290000	0.07160000	0.00000000
115.	-0.04500000	0.66090000	-0.63520002	0.74110001	0.01410000	0.00000000
120.	0.17790000	1.27970004	-1.08550000	1.35280001	-0.04110000	0.00000000
125.	-0.01200000	1.37639999	0.30000001	0.33919999	-0.03940000	0.00000000
130.	-0.04890000	1.27559996	0.55210000	0.36039999	-0.06720000	0.00000000
135.	-0.13519999	0.66180003	-0.19740000	0.54839998	-0.09390000	0.00000000
140.	-0.20039999	0.45080000	-0.56400001	0.69999999	-0.11760000	0.00000000
145.	-0.03050000	0.50000000	-0.94999999	0.47999999	-0.13699999	0.00000000
150.	-0.08230000	0.45850000	-0.99820000	-0.53570002	-0.12840000	0.00000000
155.	-0.09580000	0.02270000	-0.92760003	-1.02219999	-0.12290000	0.00000000
160.	-0.03140000	-0.27530000	-0.66240001	-0.76059997	-0.09810000	0.00000000
165.	0.06280000	-0.10190000	-0.30320001	-0.37709999	-0.04180000	0.00000000
170.	0.01480000	-0.02950000	-0.03500000	-0.02450000	0.00020000	0.00000000
175.	-0.00200000	-0.02960000	-0.00890000	0.00590000	0.04860000	0.00000000
180.	-0.01970000	-0.01060000	-0.00170000	0.05950000	0.05830000	0.00000000

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STEEL CASE ET ATTACH RING INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.60
PHI= 90.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.08500000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.36000001	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.72000003	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	1.13000000	-0.00980000	0.01000000	0.00000000	0.00000000
80.	0.00000000	1.63000000	-0.02000000	0.15000001	0.00000000	0.00000000
85.	0.00000000	1.89999998	-0.05000000	0.27000001	0.00000000	0.00000000
90.	0.00000000	1.95000005	-0.10000000	0.46000001	0.00000000	0.00000000
95.	0.00000000	1.89999998	-0.15000001	0.63999999	0.00000000	0.00000000
100.	-0.01250000	1.64859998	-0.19020000	0.94230002	0.01070000	0.00000000
105.	0.05000000	1.27999997	-0.16230001	1.15069997	0.00600000	0.00000000
110.	-0.00470000	0.84060001	-0.33539999	0.64539999	0.01170000	0.00000000
115.	-0.12460000	0.51590002	-0.26190001	0.65750003	-0.00120000	0.00000000
120.	-0.13380000	0.40709999	-0.38220000	0.47729999	-0.05060000	0.00000000
125.	-0.03210000	0.29730001	-0.56989998	0.42150000	-0.07150000	0.00000000
130.	-0.03620000	0.07500000	-0.34999999	0.51230001	-0.06830000	0.00000000
135.	0.18000001	0.02830000	-0.31090000	0.50950003	-0.09150000	0.00000000
140.	0.15770000	0.24660000	-0.12940000	0.42039999	-0.11320000	0.00000000
145.	-0.05000000	0.14120001	-0.23280001	0.98549998	-0.11960000	0.00000000
150.	-0.02540000	-0.08730000	-0.02210000	1.04980004	-0.12660000	0.00000000
155.	0.00250000	-0.24580000	-0.37560001	0.67159998	-0.12720001	0.00000000
160.	0.08310000	-0.30329999	-0.51520002	0.15820000	-0.12720001	0.00000000
165.	0.08830000	-0.17700000	-0.21610001	-0.21720000	-0.07200000	0.00000000
170.	0.00080000	-0.08410000	0.04230000	-0.01900000	-0.02570000	0.00000000
175.	-0.01540000	-0.05540000	0.01150000	0.01510000	0.01960000	0.00000000
180.	-0.01180000	-0.04430000	-0.00470000	0.00510000	0.03190000	0.00000000

STEEL CASE ET ATTACH RING INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.90
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	-0.01500000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	-0.04630000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	-0.12100000	0.00680000	0.02000000	0.00000000	0.00000000
80.	0.00000000	-0.27080001	0.07000000	0.07000000	0.00000000	0.00000000
85.	-0.05000000	-0.40000001	0.12000000	0.20000000	0.00000000	0.00000000
90.	-0.10000000	-0.49000001	0.14000000	0.22000000	0.00000000	0.00000000
95.	-0.11000000	-0.40000001	0.18000001	0.31000000	0.00000000	0.00000000
100.	-0.05240000	-0.28960001	0.14000000	0.23999999	0.00000000	0.00000000
105.	0.02350000	-0.14579999	0.09790000	0.19320001	0.01890000	0.00000000
110.	0.03750000	-0.05040000	-0.03010000	0.06350000	-0.00690000	0.00000000
115.	0.06110000	-0.04550000	-0.04740000	0.05630000	-0.01670000	0.00000000
120.	0.09970000	-0.01880000	-0.07840000	0.13470000	-0.02170000	0.00000000
125.	-0.00050000	0.07720000	-0.18000001	0.10610000	-0.04240000	0.00000000
130.	-0.01370000	0.32839999	-0.20590000	-0.63440001	-0.06720000	0.00000000
135.	-0.05930000	0.43169999	-0.06970000	0.04090000	-0.08280000	0.00000000
140.	-0.15470000	0.44999999	-0.00690000	0.00080000	-0.12460000	0.00000000
145.	-0.17569999	0.16260000	0.03440000	-0.17569999	-0.12060000	0.00000000
150.	-0.22790000	-0.20320000	0.21259999	-0.68760002	-0.09660000	0.00000000
155.	-0.20320000	-0.40630001	0.46770000	-1.26049995	-0.10290000	0.00000000
160.	0.14450000	-0.27360001	0.77289999	-1.06169999	-0.09840000	0.00000000
165.	0.03690000	0.02530000	0.52700001	-0.01910000	-0.13930000	0.00000000
170.	-0.00990000	0.01510000	-0.09290000	-0.10530000	-0.06810000	0.00000000
175.	0.00340000	-0.03810000	-0.01820000	0.06580000	-0.00120000	0.00000000
180.	0.01040000	0.00180000	-0.00350000	0.00500000	0.04170000	0.00000000
			0.00730000	-0.00980000	0.04300000	0.00000000

STEEL CASE ET ATTACH RING INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.90
PHI= 45.

ALPHA	CN	CM	CY	CY1	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.01500000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.04000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.09000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.05000000	0.16000000	0.00000000	0.00000000	0.00000000	0.00000000
85.	0.10000000	0.20000000	0.00000000	0.00000000	0.00000000	0.00000000
90.	0.16000000	0.20999999	0.00000000	0.00000000	0.00000000	0.00000000
95.	0.15000001	0.17000000	0.00000000	-0.04000000	0.00000000	0.00000000
100.	0.10410000	0.09860000	0.01490000	-0.06000000	0.00000000	0.00000000
105.	0.00980000	-0.04110000	0.00240000	-0.08240000	0.02030000	0.00000000
110.	0.00360000	-0.11130000	-0.00210000	-0.04720000	0.00800000	0.00000000
115.	0.02970000	-0.01770000	0.01890000	-0.01360000	-0.00420000	0.00000000
120.	0.12989999	0.24280000	-0.12710001	-0.02810000	-0.01770000	0.00000000
125.	0.05760000	0.39410001	-0.28000000	0.34160000	-0.02960000	0.00000000
130.	-0.05990000	0.63970000	-0.45660001	0.25619999	-0.03780000	0.00000000
135.	-0.10000000	1.32860005	-0.59570003	0.12220000	-0.06020000	0.00000000
140.	-0.14440000	0.88230002	-0.78200001	0.12030000	-0.08610000	0.00000000
145.	-0.18300000	0.77450001	-0.89999998	0.57499999	-0.09630000	0.00000000
150.	-0.24010000	0.11820000	-0.87000000	1.44089997	-0.11540000	0.00000000
155.	-0.11920000	-0.22200000	-0.69019997	-0.01630000	-0.12590000	0.00000000
160.	0.06000000	-0.35360000	-0.30939999	-0.79119998	-0.15950000	0.00000000
165.	0.05520000	0.04540000	-0.18250000	-0.17500000	-0.13300000	0.00000000
170.	0.00020000	0.00290000	0.00490000	-0.03000000	-0.02980000	0.00000000
175.	-0.00480000	-0.03180000	-0.01010000	-0.01200000	0.01770000	0.00000000
180.	-0.00550000	0.05090000	-0.00810000	0.00940000	0.05050000	0.00000000
				0.00250000	0.02600000	0.00000000

STEEL CASE ET ATTACH RING INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.90
PHI= 90.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
85.	0.00000000	0.00000000	0.00000000	0.02000000	0.00000000	0.00000000
90.	0.00000000	0.00000000	-0.01000000	0.04000000	0.00000000	0.00000000
95.	0.00000000	0.00000000	-0.03450000	0.06000000	0.00000000	0.00000000
100.	-0.04590000	0.00000000	-0.05630000	0.08910000	0.00920000	0.00000000
105.	0.07170000	-0.00990000	-0.07060000	0.11920000	-0.00520000	0.00000000
110.	0.03940000	0.02940000	-0.05560000	0.03740000	-0.00970000	0.00000000
115.	-0.04680000	-0.04220000	-0.05870000	0.07890000	-0.01160000	0.00000000
120.	-0.04960000	0.06180000	-0.05600000	0.04530000	-0.01710000	0.00000000
125.	-0.03650000	-0.09740000	-0.11100000	0.09440000	-0.03860000	0.00000000
130.	-0.03520000	0.14600000	-0.10240000	0.06840000	-0.06300000	0.00000000
135.	-0.10390000	0.35820001	-0.04600000	0.00000000	-0.11790000	0.00000000
140.	-0.07110000	0.76800001	0.12500000	-0.02800000	-0.13190000	0.00000000
145.	-0.02090000	0.75180000	0.16779999	0.18810000	-0.13040000	0.00000000
150.	-0.08260000	0.06560000	0.02580000	0.92970002	-0.13349999	0.00000000
155.	0.03040000	-0.34729999	-0.23890001	0.96859998	-0.15910000	0.00000000
160.	0.35800001	-0.41670001	-0.62349999	0.62349999	-0.16429999	0.00000000
165.	0.08000000	-0.04610000	-0.10820000	0.15000001	-0.06130000	0.00000000
170.	-0.01370000	-0.00090000	0.01600000	0.01840000	-0.00160000	0.00000000
175.	-0.00160000	-0.05030000	-0.00320000	0.00520000	0.02870000	0.00000000
180.	0.00770000	0.01860000	0.00470000	-0.00580000	0.03210000	0.00000000

STEEL CASE ET ATTACH RING INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.10
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
85.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
90.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
95.	0.01500000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
100.	0.05500000	0.00000000	0.00000000	0.02000000	0.00000000	0.00000000
105.	0.12000000	0.05000000	-0.01000000	0.06000000	0.00000000	0.00000000
110.	0.19000000	0.10000000	-0.04000000	0.06000000	0.00000000	0.00000000
115.	0.22000000	0.25000000	-0.07000000	0.06000000	0.00000000	0.00000000
120.	0.17120001	0.41720000	-0.10260000	-0.02610000	-0.04900000	0.00000000
125.	0.06020000	0.52569997	-0.08400000	-0.13190000	-0.06400000	0.00000000
130.	-0.04940000	0.40000001	0.04710000	-0.06660000	-0.06840000	0.00000000
135.	-0.05210000	0.32319999	0.05410000	-0.04530000	-0.08260000	0.00000000
140.	-0.14590000	0.07410000	0.07090000	-0.06490000	-0.09000000	0.00000000
145.	-0.22570001	-0.11260000	0.08960000	-0.19599999	-0.09780000	0.00000000
150.	-0.21640000	-0.20000000	-0.28920001	-0.23999999	-0.10480000	0.00000000
155.	-0.23040000	-0.19830000	-0.03520000	-0.15000001	-0.10240000	0.00000000
160.	-0.16000000	-0.01030000	0.88209999	0.11610000	-0.05010000	0.00000000
165.	0.02240000	0.21900000	1.42840004	2.16869998	-0.33910000	0.00000000
170.	0.16670000	0.17500000	0.40820000	0.52759999	-0.08440000	0.00000000
175.	0.03600000	0.09230000	-0.01280000	0.11550000	-0.02490000	0.00000000
180.	0.00990000	0.01150000	-0.00210000	-0.00170000	-0.00140000	0.00000000

STEEL CASE ET ATTACH RING INCREMENT

DREF=146 IN
LREF=1769.6 IN
MRP=.53*LREF (STA 1255.9)

MACH= 1.10
PHI= 45.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
85.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
90.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
95.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
100.	0.00000000	-0.04000000	0.00000000	0.00000000	0.00000000	0.00000000
105.	-0.05000000	-0.13000000	-0.02000000	0.00000000	0.00000000	0.00000000
110.	-0.12000000	-0.17000000	-0.04000000	0.00000000	0.00000000	0.00000000
115.	-0.11000000	-0.11000000	-0.05000000	0.00000000	0.00000000	0.00000000
120.	-0.04330000	0.10540000	-0.01320000	-0.00280000	-0.02210000	0.00000000
125.	0.01930000	0.48899999	0.05340000	-0.02060000	-0.04550000	0.00000000
130.	0.04440000	0.48289999	0.08050000	-0.11780000	-0.06740000	0.00000000
135.	-0.03040000	0.35440001	0.15140000	-0.14610000	-0.07160000	0.00000000
140.	-0.19180000	0.17550001	0.10980000	-0.13710000	-0.08090000	0.00000000
145.	-0.22200000	0.39899999	-0.29170001	0.27900001	-0.09750000	0.00000000
150.	-0.30070001	0.36829999	0.13120000	0.40000001	-0.10280000	0.00000000
155.	-0.51260000	-0.24330001	0.44450000	0.00000000	-0.07030000	0.00000000
160.	-0.53539997	-0.36950001	-2.20000005	-3.25419998	-0.10910000	0.00000000
165.	-0.10460000	-0.05910000	-1.36440003	-2.55049992	-0.11430000	0.00000000
170.	0.16890000	0.10200000	-0.43579999	-0.52829999	-0.05520000	0.00000000
175.	0.00560000	0.01120000	-0.01510000	-0.01420000	-0.00150000	0.00000000
180.	-0.00450000	-0.00830000	-0.00760000	-0.02530000	0.01950000	0.00000000

STEEL CASE ET ATTACH RING INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.10
PHI= 90.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
85.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
90.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
95.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
100.	0.05000000	0.02500000	0.00000000	0.00000000	0.00000000	0.00000000
105.	0.10000000	0.10000000	0.00000000	0.04000000	0.00000000	0.00000000
110.	0.12000000	0.15000001	-0.01700000	0.07000000	0.00000000	0.00000000
115.	0.07000000	0.14000000	-0.05000000	0.06000000	0.00000000	0.00000000
120.	-0.00460000	0.01990000	-0.04280000	0.05660000	-0.03900000	0.00000000
125.	-0.12410000	-0.13169999	-0.03670000	0.01830000	-0.04500000	0.00000000
130.	-0.07730000	0.01170000	-0.02770000	-0.01230000	-0.06200000	0.00000000
135.	-0.01420000	0.35120001	-0.15510000	0.10580000	-0.09590000	0.00000000
140.	-0.09100000	0.41999999	-0.16280000	0.14040001	-0.10390000	0.00000000
145.	-0.09460000	0.32710001	-0.23999999	0.20000000	-0.11770000	0.00000000
150.	-0.28029999	-0.05390000	-0.38540000	0.30000001	-0.10140000	0.00000000
155.	-0.43450001	-0.57050002	-0.45699999	0.28999999	-0.08060000	0.00000000
160.	-0.31070000	-0.53100002	-0.52999997	0.23000000	-0.11840000	0.00000000
165.	0.07780000	0.02470000	-0.60000002	-1.58060002	-0.15189999	0.00000000
170.	0.25889999	0.04160000	-0.50999999	-0.90130001	-0.05600000	0.00000000
175.	0.00590000	0.00900000	0.02210000	-0.01270000	-0.02990000	0.00000000
180.	-0.01180000	-0.01280000	0.00410000	0.00030000	-0.00550000	0.00000000

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STEEL CASE ET ATTACH RING INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.30
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
85.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
90.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
95.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
100.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
105.	0.00000000	0.00000000	-0.04000000	0.04000000	0.00000000	0.00000000
110.	0.00000000	0.05000000	-0.08000000	0.06000000	0.00000000	0.00000000
115.	0.04000000	0.12000000	-0.11000000	0.05000000	0.00000000	0.00000000
120.	0.05500000	0.26999999	-0.08170000	0.05500000	-0.04470000	0.00000000
125.	-0.08720000	0.03070000	0.01150000	0.02010000	-0.04780000	0.00000000
130.	-0.07900000	0.35060000	0.01690000	0.01020000	-0.05860000	0.00000000
135.	-0.10600000	0.30860001	0.06530000	-0.03010000	-0.08330000	0.00000000
140.	-0.11620000	0.29580000	0.03750000	-0.05600000	-0.10080000	0.00000000
145.	-0.11500000	0.18940000	0.04900000	-0.04680000	-0.10090000	0.00000000
150.	-0.09870000	0.17150000	-0.05690000	0.33790001	-0.10950000	0.00000000
155.	-0.24699999	0.10000000	-0.05000000	1.13600004	-0.09280000	0.00000000
160.	-0.31900001	0.05000000	0.95029998	1.86459994	-0.07510000	0.00000000
165.	-0.15360001	0.01310000	1.16729999	1.68120003	-0.08000000	0.00000000
170.	0.19290000	0.13970000	0.56169999	0.78820002	-0.09240000	0.00000000
175.	0.02620000	-0.02240000	0.00400000	0.03430000	-0.02530000	0.00000000
180.	0.00450000	-0.02130000	-0.00350000	0.00500000	0.01610000	0.00000000

STEEL CASE ET ATTACH RING INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.30
PHI= 45.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
85.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
90.	0.00000000	0.01000000	0.00000000	0.00000000	0.00000000	0.00000000
95.	0.05000000	0.05000000	0.00000000	0.00000000	0.00000000	0.00000000
100.	0.10000000	0.12000000	0.00000000	0.00000000	0.00000000	0.00000000
105.	0.15000001	0.20999999	0.00000000	0.00000000	0.00000000	0.00000000
110.	0.18000001	0.30000001	0.00000000	0.00000000	0.00000000	0.00000000
115.	0.16000000	0.28999999	0.00000000	0.00000000	0.00000000	0.00000000
120.	0.10190000	0.23350000	0.00290000	-0.01740000	-0.03760000	0.00000000
125.	-0.03750000	0.13240001	0.01190000	0.00710000	-0.04090000	0.00000000
130.	-0.06670000	0.17890000	0.01680000	0.01080000	-0.05380000	0.00000000
135.	-0.00190000	0.38999999	-0.00990000	-0.01280000	-0.07560000	0.00000000
140.	-0.07980000	0.37490001	-0.00400000	-0.00610000	-0.08120000	0.00000000
145.	-0.02620000	0.33980000	-0.06930000	0.17330000	-0.08150000	0.00000000
150.	-0.11080000	0.16010000	-0.18359999	0.17739999	-0.08280000	0.00000000
155.	-0.27039999	-0.15940000	-0.40000001	-0.65009999	-0.06720000	0.00000000
160.	-0.35179999	-0.38830000	-0.80860001	-1.25000000	-0.07910000	0.00000000
165.	-0.[illegible]0000	-0.21520001	-1.41779995	-1.44500005	-0.10330000	0.00000000
170.	[illegible]0000	0.11470000	-0.57309997	-0.88840002	-0.10660000	0.00000000
175.	[illegible]000	-0.01670000	-0.04220000	-0.02750000	-0.04210000	0.00000000
180.	-[illegible]000	-0.[illegible]80000	0.00240000	-0.00360000	-0.00640000	0.00000000

STEEL CASE ET ATTACH RING INCREMENT

MACH= 1.30
PHI= 90.

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
85.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
90.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
95.	0.00000000	-0.03000000	0.00000000	0.00000000	-0.00980000	0.00000000
100.	0.00000000	-0.07000000	0.00000000	0.00000000	-0.01980000	0.00000000
105.	0.00000000	-0.11000000	-0.04000000	0.03000000	-0.02900000	0.00000000
110.	0.03500000	-0.05000000	-0.03770000	0.03770000	-0.06090000	0.00000000
115.	0.04110000	0.13410001	-0.05760000	0.01910000	-0.08290000	0.00000000
120.	0.07100000	0.33170000	-0.09160000	0.05410000	-0.10130000	0.00000000
125.	0.07410000	0.56860000	-0.10270000	0.04620000	-0.11820000	0.00000000
130.	0.00980000	0.64999998	-0.02620000	-0.00110000	-0.11600000	0.00000000
135.	0.02500000	0.58029997	-0.04810000	0.27289999	-0.09920000	0.00000000
140.	-0.02140000	0.38589999	-0.14300001	0.31400001	-0.09310000	0.00000000
145.	-0.11760000	0.12590000	0.00450000	0.53670001	-0.10630000	0.00000000
150.	-0.25830001	-0.20080000	0.47150001	0.84780002	-0.14110000	0.00000000
155.	-0.38499999	-0.31000000	-0.03440000	-0.30350000	-0.08690000	0.00000000
160.	-0.15809999	-0.16249999	-0.17290001	-0.35220000	-0.03030000	0.00000000
165.	0.15340000	-0.01230000	0.01470000	-0.05030000	0.01280000	0.00000000
170.	0.02780000	0.00150000	0.00910000	-0.01330000		
175.	-0.00140000	-0.02160000				
180.						

STEEL CASE ET ATTACH RING INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 2.99
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
85.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
90.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
95.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
100.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
105.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
110.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
115.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
120.	0.00000000	0.00000000	0.00000000	0.00000000	-0.03000000	0.00000000
125.	0.00000000	0.00000000	0.00000000	0.00000000	-0.05000000	0.00000000
130.	0.00000000	0.00000000	0.00000000	0.00000000	-0.10000000	0.00000000
135.	0.00000000	0.00000000	0.00000000	-0.01880000	-0.09710000	0.00000000
140.	0.02440000	-0.01750000	-0.00380000	-0.01980000	-0.09310000	0.00000000
145.	0.01550000	-0.02360000	0.00430000	-0.03950000	-0.07780000	0.00000000
150.	-0.03100000	-0.11540000	0.01210000	-0.04650000	-0.05750000	0.00000000
155.	-0.02330000	-0.11460000	0.00870000	-0.07120000	-0.04640000	0.00000000
160.	-0.00590000	-0.03140000	-0.03420000	0.01480000	-0.04980000	0.00000000
165.	0.00030000	0.03930000	0.01110000	0.11920000	-0.06380000	0.00000000
170.	0.00840000	0.07340000	0.07260000	0.00923000	-0.07580000	0.00000000
175.	0.00940000	0.02110000	0.02820000	-0.02510000	-0.08440000	0.00000000
180.	-0.01660000	0.00630000	0.01110000			

STEEL CASE ET ATTACH RING INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 2.99
PHI= 45.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
85.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
90.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
95.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
100.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
105.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
110.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
115.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
120.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
125.	0.02000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
130.	0.04000000	0.00000000	0.00000000	0.00000000	-0.03000000	0.00000000
135.	0.05000000	0.00000000	0.00000000	0.00000000	-0.05000000	0.00000000
140.	0.04570000	0.01270000	0.00610000	0.00700000	-0.06600000	0.00000000
145.	0.02520000	0.03560000	0.00800000	-0.01890000	-0.06360000	0.00000000
150.	-0.01480000	-0.04410000	-0.00060000	-0.01960000	-0.04900000	0.00000000
155.	-0.01110000	0.00650000	0.01140000	0.01410000	-0.03660000	0.00000000
160.	-0.01100000	0.02850000	-0.00380000	-0.00530000	-0.02850000	0.00000000
165.	-0.00850000	0.06830000	-0.00780000	-0.02590000	-0.02690000	0.00000000
170.	-0.00810000	0.05430000	-0.06880000	-0.15670000	-0.03930000	0.00000000
175.	0.00580000	0.04430000	0.01690000	0.02740000	-0.06580000	0.00000000
180.	-0.01010000	0.03650000	0.00720000	0.01440000	-0.07550000	0.00000000

STEEL CASE ET ATTACH RING INCREMENT

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 2.99
PHI= 90.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
25.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
30.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
35.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
50.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
55.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
60.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
65.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
70.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
75.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
80.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
85.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
90.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
95.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
100.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
105.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
110.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
115.	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
120.	0.00000000	0.00000000	0.00000000	0.00000000	-0.03000000	0.00000000
125.	0.00000000	0.00000000	0.00000000	0.00000000	-0.06500000	0.00000000
130.	0.02000000	0.00000000	-0.00400000	0.00000000	-0.07000000	0.00000000
135.	0.04000000	0.00000000	-0.04000000	0.00000000	-0.07200000	0.00000000
140.	0.05190000	0.02840000	-0.04710000	-0.00450000	-0.10120000	0.00000000
145.	0.03730000	0.07370000	-0.05590000	-0.00570000	-0.09620000	0.00000000
150.	0.04030000	0.09930000	-0.06160000	0.00890000	-0.07850000	0.00000000
155.	0.04590000	0.14860000	-0.01590000	-0.09570000	-0.05780000	0.00000000
160.	0.01450000	0.03840000	0.10470000	0.13510001	-0.04930000	0.00000000
165.	0.01060000	0.08660000	0.15400000	0.33109999	-0.04750000	0.00000000
170.	-0.02070000	0.03100000	-0.04780000	-0.09830000	-0.05760000	0.00000000
175.	-0.00380000	0.02000000	-0.02580000	-0.01610000	-0.07380000	0.00000000
180.	-0.01250000	0.02450000	-0.00780000	0.01590000	-0.08070000	0.00000000

Data Tape 8

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.40
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.07130000	0.04630000	-0.00050000	0.00870000	0.86049992	-0.02020000
5.	0.48679990	0.50009990	-0.02880000	0.07630000	0.90120000	-0.01690000
10.	0.93269998	1.27179992	-0.02679989	0.13789999	0.98829991	0.01440000
15.	1.46090007	2.32500029	0.07960001	0.29759991	1.03520012	0.04840000
20.	2.04449987	3.54879999	0.21080001	-0.02479991	1.01539993	0.06959999
25.	2.70029998	4.98019981	0.29699990	-0.02439991	0.96920002	0.06340000
30.	3.46200013	6.63669968	-0.23399991	0.49849990	0.88239992	0.04940000
35.	4.23660040	8.22519875	-1.73420000	0.80030000	0.76650000	0.03550000
40.	5.20870018	10.17809963	-3.49339986	1.12419987	0.62549990	0.02570000
45.	6.42950058	12.48990059	-5.19399977	1.59539998	0.48040000	0.01420000
50.	7.51199961	14.59510040	-6.00159979	2.11160016	0.33539990	-0.00490000
55.	8.33800030	15.79700089	-6.23520041	4.21350002	0.15759990	-0.01232860
60.	8.96690083	16.33720016	-5.59509993	2.80740023	-0.00025860	-0.01975720
65.	9.35050106	15.90429878	-5.94599581	-1.21198511	-0.17782420	-0.02298130
70.	9.65799999	15.57090092	-7.59287357	-6.93100892	-0.32047570	-0.02429890
75.	9.98970032	15.42140007	-7.96408033	-3.52780271	-0.40720180	-0.02991600
80.	10.21809959	14.35720062	-6.73518229	-0.23729527	-0.35598800	-0.03139800
85.	10.28389835	12.15580177	-6.44640684	-2.60944557	0.34222960	-0.03273000
90.	10.28000069	9.01200008	-5.88335419	-2.41078734	0.27839240	-0.03314840
95.	10.40999794	6.59779978	-5.25536823	-2.50583076	0.07446990	-0.03285000
100.	10.49999905	4.30870008	-4.58343601	-1.39545643	-0.24321990	-0.03564000
105.	10.57349968	2.83700013	-4.70106030	1.78006399	-0.62536001	-0.03770000
110.	10.50800037	1.60000002	-5.61199999	1.44776464	-0.98475993	-0.03612000
115.	10.31670189	0.71779984	-5.34852314	3.06000209	-1.34069991	-0.02802550
120.	9.94639969	0.19190009	-3.89442158	3.78000045	-1.60329986	-0.01790000
125.	9.52910042	-0.02470002	-2.80380034	4.41921043	-1.84644771	-0.02515600
130.	8.64999962	0.42340022	-1.83353877	5.63174248	-2.06935978	-0.02135600
135.	7.47119999	0.20890012	-0.85620213	6.01152515	-2.20877719	-0.02034600
140.	6.36599970	-0.28230000	-1.44150054	2.79626322	-2.39303350	-0.01516600
145.	5.30149937	-0.31289992	-3.33653998	-3.41366196	-2.53682852	-0.01672390
150.	4.30430031	-0.65886182	-2.83770990	-4.19250011	-2.60620070	-0.01354000
155.	3.30509973	-0.63669980	-1.34884119	-4.15274858	-2.60762596	-0.00844360
160.	2.34080005	-0.64259994	0.19745201	-1.66636145	-2.56204128	-0.00572930
165.	1.42550004	-0.32440001	-0.03204130	-0.14998570	-2.48485088	-0.00517220
170.	0.81989992	-0.11049990	-0.15334600	-0.04630001	-2.37900066	-0.00003330
175.	0.25089991	-0.02310000	-0.03300010	-0.09350000	-2.24266005	-0.00018540
180.	-0.17440000	-0.00430000	0.01010000	-0.01756000	-2.17856169	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.40
PHI= 45.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.07130000	0.04630000	-0.00110000	0.00870000	0.86029983	-0.02030000
5.	0.45679989	0.46009991	-0.06630000	0.01880000	0.90450001	-0.01610000
10.	0.79519975	1.04539990	-0.09210000	0.02290000	0.99089992	0.01170000
15.	1.13229990	1.75180006	-0.03290000	0.12509990	1.03730011	0.05050000
20.	1.65539980	2.79280019	0.06080000	-0.25290000	1.01729965	0.07240000
25.	2.25150013	4.02540016	0.11970000	-0.31189990	0.97000003	0.06750000
30.	2.95270014	5.49939966	0.27269989	0.06720000	0.88749993	0.05490000
35.	3.79779983	7.16139984	0.42579994	0.60210001	0.78349990	0.03300000
40.	4.49030018	8.46390057	0.53129977	0.75779992	0.62919992	-0.01210000
45.	5.28000021	9.67969894	0.58706594	0.63220000	0.50520003	-0.06320000
50.	6.03719997	10.60589981	0.57079995	0.50909990	0.38909990	-0.12709990
55.	6.74399996	10.82159996	0.46983173	0.21570000	0.26141700	-0.16050000
60.	7.13600063	10.59777546	0.20499051	0.02660000	0.17819600	-0.18552640
65.	7.38550043	10.46479511	-1.42469990	0.14460000	0.00200000	-0.20732240
70.	7.50320005	10.33469963	-2.20342898	1.16677070	-0.11519630	-0.22735420
75.	7.54160023	10.19770050	-1.80031216	0.38246810	-0.17833690	-0.21885651
80.	7.55759954	9.25559998	-1.23470032	-0.54897892	-0.21535440	-0.22050000
85.	7.60039997	7.46639967	-0.58366352	-2.15626907	0.29542580	-0.22301920
90.	7.63040018	5.73050022	0.14043239	-1.89369714	0.31517050	-0.22690141
95.	7.62029934	3.46680021	0.31098020	-0.10021760	0.19759670	-0.22463110
100.	7.56800032	1.79069996	0.35919976	1.47448933	-0.11208290	-0.22570500
105.	7.53460026	0.53569984	0.10267779	3.92648768	-0.46575570	-0.21860750
110.	7.45160055	-0.33100000	0.34615570	4.99568605	-0.92185920	-0.19954920
115.	7.51509953	-0.93719983	1.10575736	5.35431385	-1.22839046	-0.17029870
120.	7.25239992	-1.41770017	0.62405723	5.41212702	-1.51757574	-0.16881199
125.	6.74720049	-1.71169972	0.27910313	5.16914940	-1.73994780	-0.14836800
130.	6.03230000	-1.94840002	0.02491546	3.97672081	-1.97596383	-0.12529600
135.	5.30630016	-2.29309988	-0.37729284	2.36991620	-2.18973589	-0.11066831
140.	4.52149963	-2.45599985	-0.93974853	1.42882478	-2.36929226	-0.09251660
145.	3.60180020	-2.36819983	-1.51687598	1.19303036	-2.55922794	-0.07028400
150.	2.85560012	-2.25300002	-1.22558403	0.63598502	-2.63574028	-0.05219600
155.	1.89880002	-1.70760012	-0.99480104	-0.12673311	-2.61856937	-0.03369480
160.	1.26479995	-1.08509994	-0.42490050	-0.39787650	-2.56692004	-0.01853240
165.	0.68429983	-0.55359977	-0.17961110	-0.32448721	-2.48660707	-0.00858130
170.	0.37519991	-0.27590001	0.00346890	-0.21097671	-2.38558483	-0.00504730
175.	0.09130000	-0.05150000	0.00698000	-0.06736000	-2.24921989	-0.00440000
180.	-0.11790000	0.04050000	0.00490000	-0.02196000	-2.17859983	-0.00001760

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.40
PHI= 90.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.07130000	0.03670000	-0.00050000	0.00070000	0.86029983	-0.02110000
5.	0.44509989	0.39619979	-0.07880000	-0.05620001	0.92820001	-0.01735000
10.	0.73899990	0.85749990	-0.12679990	-0.12710001	1.00979996	0.01320000
15.	1.13229990	1.56220007	-0.07040001	-0.09990011	1.05130005	0.04585000
20.	1.68649995	2.60489988	0.01000000	-0.55290002	1.02390003	0.06140000
25.	2.25150013	3.79099989	0.05839990	-0.68689996	0.97430003	0.05895000
30.	2.91090012	5.08100033	0.23919989	-0.53299999	0.88779992	0.04030000
35.	3.68009973	6.55569983	0.40250003	-0.36600015	0.78349990	0.02205000
40.	4.45760059	7.93359947	0.43919978	0.01809990	0.61080003	0.01267340
45.	5.26610041	9.16550064	0.08899990	0.47900003	0.42100000	0.00591320
50.	6.15330029	10.23499966	-0.22760001	0.97149986	0.29409990	0.00020430
55.	6.98390055	11.08229923	-0.45110002	0.88419986	0.18269990	-0.00383500
60.	7.76970100	11.73740005	-0.59139985	0.34219986	0.04329730	-0.00699320
65.	8.13579941	11.47150040	-0.73339993	-0.88511914	-0.11666000	-0.01433490
70.	8.33190060	10.48680019	-0.76950002	-2.06891203	-0.22759990	-0.02184170
75.	8.32560062	9.36410713	-0.64600003	-2.89136100	-0.21349980	-0.02422520
80.	8.30560112	8.21321487	-0.54769999	-3.58375621	-0.13043401	-0.01756430
85.	8.14539909	7.12839985	-0.45280001	-3.15661645	0.16189770	-0.01408590
90.	8.04119968	5.69759989	-0.40030000	-2.98360014	0.44470420	-0.01749130
95.	7.99380016	4.42549992	-0.32889998	-2.86351204	0.34746760	-0.01975000
100.	7.95400000	3.05509996	-0.32130003	-2.70016551	-0.04370020	-0.01676040
105.	7.94599962	2.01349998	-0.36528069	-2.13511300	-0.44540390	-0.01268720
110.	7.82940006	1.00209987	-0.66447961	-1.88520002	-0.87223452	-0.00001920
115.	7.78589964	0.14340010	-0.33950162	-1.51628566	-1.21940756	-0.01527140
120.	7.51749945	-0.57279992	-0.52200007	-0.79629099	-1.56158376	-0.02874790
125.	6.71970034	-0.82099982	-2.63048077	-2.07808328	-1.83761156	-0.03064800
130.	5.73120022	-0.88099982	-2.16509986	-2.39217704	-2.09552002	-0.02246000
135.	4.43459988	-1.01809990	-1.72080459	-0.52905810	-2.24686813	-0.00918920
140.	3.89830017	-1.37850010	-1.20103562	0.59127533	-2.36710215	-0.00904620
145.	3.57060051	-1.84600008	-0.76333612	0.39078161	-2.53267527	-0.00765800
150.	2.97420025	-1.79619992	-0.47239611	0.25709200	-2.65547895	-0.00355600
155.	2.38450003	-1.46459973	-0.61472714	0.08723661	-2.67252827	-0.00225460
160.	1.74600005	-1.16020012	-0.65382020	-0.41758901	-2.58793783	-0.00468790
165.	0.88529992	-0.54259992	-0.20968680	-0.27292222	-2.49937773	-0.00228080
170.	0.44859990	-0.24739990	-0.04717700	-0.13039240	-2.40162373	-0.00342820
175.	0.21470000	-0.01840000	-0.04614000	-0.15206000	-2.25050020	-0.00233070
180.	0.06690000	0.00570000	0.00070000	-0.00456000	-2.17829561	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.40
PHI= 135.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.07130000	0.04370000	-0.00050000	0.00870000	0.86070001	-0.02180000
5.	0.45679989	0.48339990	-0.03630000	0.01880000	0.92649990	-0.01855000
10.	0.83489990	1.11890006	0.01670000	0.02290000	1.00829995	0.02280000
15.	1.21469998	1.87799990	0.05710000	0.05960000	1.05009985	0.05984990
20.	1.65539980	2.85669994	0.10000001	-0.25290000	1.02300000	0.07980000
25.	2.25150013	4.08310032	0.25949991	-0.31189990	0.96560001	0.08474990
30.	2.95270014	5.49939966	0.27269992	0.15349990	0.87759990	0.07570001
35.	3.79779983	7.11320019	0.55409992	0.61259991	0.75459993	0.06235000
40.	4.72959995	8.67000103	0.90310001	0.75779992	0.61240000	0.05510000
45.	5.66330004	10.08849907	1.58719993	-0.39569980	0.47340000	0.07625000
50.	6.49440002	11.07339954	3.30490017	-1.10599983	0.34130001	0.11880000
55.	7.01709986	11.52289963	3.39960003	-1.66160023	0.21509990	0.16024990
60.	7.25040054	11.81899834	2.19520020	-2.29899979	0.09299990	0.20220001
65.	7.36959982	11.50490093	1.10059977	-2.66879988	-0.07760000	0.22855000
70.	7.42429972	10.79299927	-0.34680000	-3.01640010	-0.21070001	0.26349992
75.	7.48079967	9.54809952	-2.09549999	-3.35419989	-0.28960001	0.28944981
80.	7.55089998	8.28970051	-2.17520118	-3.58120036	-0.10600000	0.29019991
85.	7.63229942	6.91289949	-1.92620099	-3.69163656	0.49550000	0.28845000
90.	7.70030069	5.18620062	-1.52237546	-3.72355556	0.52819991	0.27199998
95.	7.70440006	3.79139996	-1.01523849	-3.75022268	0.31680000	0.26285002
100.	7.70650053	2.48529983	-0.43423492	-3.83599997	0.00680000	0.26190001
105.	7.76290035	1.18830013	0.09687170	-5.35040188	-0.36299980	0.26120001
110.	7.86990070	0.16159993	0.18726531	-5.45370054	-0.86949992	0.24410000
115.	8.03759956	-0.62269992	-0.15933585	-5.31529999	-1.17770004	0.20579991
120.	7.90960026	-1.54319978	0.77467084	-4.34609985	-1.38000001	0.18600000
125.	7.65670013	-2.22420001	2.59019995	-3.54230022	-1.70959985	0.17230001
130.	7.11149979	-2.73860025	3.24839997	-1.83320010	-2.03369999	0.16940001
135.	6.50879955	-3.16860008	1.93819988	-0.88109964	-2.33470011	0.16060001
140.	5.78429985	-3.45610023	1.05820000	-0.62909997	-2.54629993	0.14759991
145.	4.90619946	-3.41499972	0.63000000	-1.14349985	-2.68349981	0.13209991
150.	3.97600031	-2.93810010	-0.58130002	-1.33119965	-2.72209978	0.03250000
155.	3.06200027	-2.32019997	-1.03469992	-0.94699991	-2.67740011	-0.02990000
160.	2.11919975	-1.54779994	-0.36909980	-0.62929994	-2.59620023	-0.03470000
165.	1.26479995	-0.83710003	0.21329990	0.27640000	-2.49020004	-0.02200000
170.	0.62750000	-0.31529990	0.02070000	0.18720001	-2.35570002	-0.01120000
175.	0.24730000	-0.08790000	0.01270000	-0.05490000	-2.23649979	-0.00517130
180.	-0.01030000	0.00250000	0.00400000	-0.13000000	-2.17810011	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.40
PHI= 180.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.07130000	0.04370000	-0.00050000	0.00870000	0.86129981	-0.02090000
5.	0.48679990	0.48249990	-0.07380001	-0.03870000	0.92690003	-0.01730000
10.	0.89489990	1.13450003	-0.05830000	-0.09209999	1.00909984	0.02300000
15.	1.43569982	2.14700031	-0.05540000	-0.11290000	1.05110002	0.05930000
20.	2.05380011	3.46630025	0.03080000	-0.48289999	1.02839994	0.07910000
25.	2.66140008	4.81219959	0.08370000	-0.59939992	0.96700001	0.08080000
30.	3.44399977	6.47760010	0.49529994	-0.27779999	0.87849993	0.06690000
35.	4.29000044	8.12240028	1.24119997	0.19960004	0.77179992	0.05880000
40.	5.27839947	10.05989933	2.03449988	0.96439987	0.59749991	0.05370000
45.	6.44729996	12.21290016	3.18700027	-0.91319978	0.41670001	0.04560000
50.	7.62709999	14.17360020	4.37840033	-1.68099988	0.28819990	0.03780000
55.	8.89409924	16.31510162	5.10280037	-2.05039978	0.19090000	0.02510000
60.	9.42559910	16.69626236	5.65960026	-2.29789996	0.00750000	0.01970000
65.	9.53279972	16.61495972	4.60290003	-2.54550004	-0.27819991	0.00380000
70.	9.68710041	16.48732376	3.75209951	-2.80770016	-0.40120000	-0.01300000
75.	9.95400047	16.00549126	1.96079981	-3.07540011	-0.35159990	-0.02390000
80.	10.13019943	14.78250027	1.30969989	-3.34320021	-0.20379990	-0.03240000
85.	10.29269981	12.26619911	1.32980001	-3.44089985	0.29409990	-0.03560000
90.	10.29360008	9.02349949	1.44720006	-3.52550006	0.28979990	-0.03870000
95.	10.22309971	6.34190035	1.55179989	-2.15564752	0.01960000	-0.03560000
100.	10.07520008	4.50500011	3.25935578	-0.76056170	-0.19810000	-0.03410000
105.	10.08820057	2.87979984	4.65899849	-1.04189277	-0.41659990	-0.03030960
110.	9.94049931	1.53620541	5.00399971	-1.63800001	-0.82159990	-0.02490000
115.	9.77390003	0.18710011	4.48417473	-4.96477079	-1.25109994	-0.02143840
120.	9.42370033	-0.86150008	2.70199966	-7.64266920	-1.43899965	-0.01250000
125.	8.81920052	-1.15069997	2.27571464	-8.65266609	-1.66810012	-0.00442310
130.	8.16160011	-0.65609974	1.98744750	-9.21189976	-1.92369986	0.00423330
135.	7.39249992	-0.25629997	1.92170000	-8.74390030	-2.10760021	0.01256660
140.	6.47170019	-0.20029986	2.85839987	-5.33379984	-2.29820013	0.01780000
145.	5.18209934	-0.27169999	4.11919975	3.49450016	-2.48509979	0.01130000
150.	3.79930019	-0.79170001	3.47839999	2.33080006	-2.59709978	-0.00010000
155.	2.57389998	-0.86199993	1.66139972	0.16619980	-2.59049988	-0.02830000
160.	1.68639970	-0.69309992	0.25119990	-1.17620003	-2.54969978	-0.03690000
165.	0.98339999	-0.31250000	0.23940001	0.17640001	-2.46420002	-0.04660000
170.	0.56719983	-0.07650000	0.17290001	0.25789991	-2.36030006	-0.01820000
175.	0.23359990	-0.01150000	0.05710000	0.12550001	-2.25299978	-0.00819350
180.	-0.01800000	-0.00150000	-0.01140000	0.03020000	-2.17770004	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.40
PHI= 225.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.07130000	0.04370000	-0.00050000	0.00870000	0.86019993	-0.020300[illegible]0
5.	0.45679989	0.46509990	-0.02380000	0.09380000	0.90059990	-0.018450[illegible]0
10.	0.74539989	0.99010009	0.02460000	0.17290001	0.98799992	0.019600[illegible]0
15.	1.13229990	1.75220001	0.09460001	0.35009992	1.03520012	0.056950[illegible]0
20.	1.65539980	2.85540009	0.23080000	0.04520011	1.01659966	0.07610000
25.	2.25150013	4.10810041	0.33310002	0.06310013	0.97000003	0.07734989
30.	2.92320013	5.51239967	0.58659983	0.60349995	0.88779992	0.06609990
35.	3.79779983	7.19640017	0.78530002	1.13759995	0.78349990	0.05485000
40.	4.65740013	8.81520081	0.87129980	1.57099998	0.62339991	0.04770000
45.	5.62620020	10.49510002	0.58399993	0.27930021	0.47670001	0.03895000
50.	6.39109993	11.35260105	0.34069991	-0.35599977	0.34789991	0.02250000
55.	7.07840014	11.67780018	0.28400001	-0.51389980	0.19195180	0.01555000
60.	7.58419991	11.74446583	0.33420002	-0.44629997	0.00280000	0.01930000
65.	7.93420076	11.72794914	0.47720000	-0.07479990	-0.16380000	0.02135000
70.	8.13609982	11.45183086	0.60979992	0.51910007	-0.24559990	0.02230000
75.	8.25360012	11.01809883	0.68789983	1.01740003	-0.22239991	0.02355000
80.	8.22000122	10.02890110	0.82470000	1.29940009	0.12320000	0.02450000
85.	8.12910080	8.25310040	1.00679994	1.53410006	0.55219990	0.03555000
90.	8.02080059	6.49529982	1.06065726	1.58008909	0.49079990	0.04750000
95.	7.90210056	4.36389971	0.93696731	0.78940135	0.26920000	0.05475000
100.	7.69919920	2.88909984	0.79595762	0.27039909	-0.03630000	0.055919[illegible]0
105.	7.55359983	1.59379995	0.78280050	-0.09303570	-0.49470001	0.050765[illegible]0
110.	7.42899990	0.55789995	1.05110836	-0.72710371	-0.93169981	0.04150000
115.	7.45170021	-0.35869992	1.92110002	-0.81390357	-1.30559993	0.02170000
120.	7.39039946	-1.04459989	2.84200001	-0.30781877	-1.57750010	0.00170000
125.	7.04329967	-1.63090014	3.68060017	0.43840003	-1.84579980	-0.00540000
130.	6.38409996	-2.10559988	5.03429985	0.63864350	-2.06080008	-0.0[illegible]010000
135.	5.55200005	-2.53950000	3.71350050	-1.10587835	-2.24679995	-0.00690000
140.	4.89599991	-2.88339996	2.74030018	-1.90039992	-2.41120005	0.00210000
145.	4.00849962	-2.86080003	0.69620001	-1.48120010	-2.54769993	-0.00161880
150.	3.19260001	-2.51090026	-0.46679991	-1.56200004	-2.63110018	-0.01330000
155.	2.46090031	-2.04779983	-0.71549988	-1.19699991	-2.61990023	-0.04380000
160.	1.72039986	-1.47179985	0.08090019	-0.42929992	-2.55550003	-0.04880000
165.	1.07410002	-0.86889982	0.36329991	0.27640000	-2.46619987	-0.05550000
170.	0.60710001	-0.41670001	0.12070000	0.12390000	-2.35640001	-0.03380000
175.	0.24730000	-0.11520000	0.06270000	-0.00490000	-2.24819994	-0.01551720
180.	-0.01030000	0.00250000	0.00400000	-0.13800000	-2.17693663	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.40
PHI= 270.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.07130000	0.04370000	-0.00050000	0.00870000	0.86119992	-0.02060000
5.	0.45679989	0.41830000	-0.02380000	0.09380000	0.90139991	-0.01730000
10.	0.80350000	0.96280963	0.04170000	0.17290001	0.9[illegible]739992	0.00930000
15.	1.17890000	1.64080000	0.09460001	0.35009992	1.[illegible]539991	0.05570000
20.	1.65539980	2.57889986	0.20390001	0.04520011	1.01379991	0.07930000
25.	2.25150013	3.74780011	0.26029992	0.06310013	0.96929991	0.07260000
30.	2.99450016	5.22449970	0.27770001	0.60349995	0.88739991	0.06180000
35.	3.79779983	6.71379995	0.26750001	1.13759995	0.78349990	0.05180000
40.	4.65760040	8.22509956	0.26170000	2.37220025	0.62730002	0.04500000
45.	5.59009981	9.65069962	0.27059999	1.96510017	0.49049991	0.03600000
50.	6.36420059	10.74230099	0.27950001	1.55809999	0.35249990	0.01930000
55.	7.02139997	11.22979927	0.30040002	0.99910003	0.22089990	0.01750000
60.	7.48859978	11.31710052	0.32480001	0.30870003	0.09110000	0.02140000
65.	7.83339930	10.99939919	0.34930000	-0.43020010	-0.00830000	0.02200000
70.	8.08520031	10.28090000	0.37369999	-0.41219974	-0.24089991	0.02470000
75.	8.14219952	9.10939980	0.37320000	-0.39419985	-0.29619980	0.02760000
80.	8.11919975	7.74139929	0.47150001	-0.25820005	-0.08110000	0.03050000
85.	8.04829979	6.54869938	0.61719990	0.07030034	0.44090000	0.03420000
90.	7.97169924	5.35669994	0.69780004	0.30199993	0.59469992	0.03890000
95.	7.87729931	3.96960044	0.70019996	0.52569610	0.46319991	0.03450000
100.	7.78709936	2.60909963	0.72109991	0.71600008	0.05460000	0.02810000
105.	7.68969965	1.38540006	0.93832690	0.92509013	-0.47979990	0.01200000
110.	7.51510000	0.41679999	1.47766900	0.94321603	-1.06929994	0.00080000
115.	7.36770058	-0.28150010	1.93838441	0.88680840	-1.45619965	-0.01120000
120.	7.07229996	-0.51100004	2.49970007	1.26319993	-1.70889986	-0.02520000
125.	6.57509995	-0.67509997	2.61400008	1.81419992	-1.97029996	-0.01620000
130.	5.97150040	-0.95129991	2.12839985	1.90649998	-2.18860006	-0.00280000
135.	5.26879978	-1.13819993	1.48359990	0.10340010	-2.36259985	0.00590000
140.	4.64080048	-1.47259998	1.44180012	-0.74959999	-2.49949980	0.00430000
145.	3.65620017	-1.62849963	1.07359993	-0.40269992	-2.59030008	-0.01410000
150.	2.88860011	-1.51930010	0.07100010	-0.50580001	-2.64189993	-0.01970000
155.	2.18260002	-1.30849993	-0.06189999	-0.36969993	-2.61229992	-0.04960000
160.	1.53319991	-1.02719986	0.18339998	0.16640009	-2.55149984	-0.04416570
165.	0.96370000	-0.60239983	0.36329991	0.11190000	-2.46580021	-0.03704100
170.	0.51300001	-0.26409990	0.07720000	0.19340001	-2.37200022	-0.02312370
175.	0.22080000	-0.06770000	0.01370000	0.27599999	-2.27440023	-0.01106420
180.	0.03970000	-0.00390000	-0.02350000	0.25749990	-2.17829990	-0.00100000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.40
PHI= 315.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.07130000	0.05070000	-0.00050000	-0.05050000	0.85939991	-0.01810000
5.	0.45679989	0.48259988	-0.02380000	0.09380000	0.92649990	-0.01690000
10.	0.83219999	1.12529969	0.00390000	0.18440001	1.00810003	0.01400000
15.	1.18429971	1.83120000	0.09460001	0.35009992	1.04970002	0.04690000
20.	1.68649995	2.79970026	0.23150000	0.04710001	1.02489996	0.06280000
25.	2.25139999	4.02139997	0.33079991	0.06310013	0.97200002	0.07810000
30.	2.95250034	5.60430050	0.49260002	0.51719999	0.88709992	0.05690000
35.	3.79779983	7.29299974	0.69400001	0.95620006	0.78349990	0.04460000
40.	4.90779972	9.28170013	0.87129980	1.27339995	0.64999992	0.03640000
45.	5.94549990	11.00699997	0.58399993	1.42899990	0.49049991	0.02620000
50.	6.81190014	11.57450008	0.17010000	1.51460004	0.35589990	0.02000000
55.	7.40990019	12.03119946	-0.17389989	1.48940003	0.23140000	0.02560000
60.	7.77370071	12.43099976	-0.51799989	1.22020006	0.13079990	0.03180000
65.	7.96579981	12.34300137	-0.70479989	0.96980000	-0.04880000	0.03330000
70.	8.0980971	11.94020081	-0.55529994	0.48810005	-0.19599991	0.03250000
75.	8.13390064	10.55440044	-0.30009982	0.41420013	-0.22780000	0.03100000
80.	8.11479950	8.77799988	-0.16939992	0.35100013	0.15140000	0.03110000
85.	8.00079918	7.32749987	0.04080001	0.25630045	0.68339992	0.03550000
90.	7.90840006	6.12479973	0.18220010	-0.12559998	0.51639992	0.03880000
95.	7.84270000	4.45619965	0.28242087	-0.49329984	0.32519990	0.02490000
100.	7.76519918	3.00239992	0.42234731	2.56399965	-0.01590000	0.00670000
105.	7.72090006	1.49030006	0.94879991	2.73549962	-0.54509991	-0.01540000
110.	7.61250019	0.31810001	1.67200041	2.54238153	-0.96259981	-0.03640000
115.	7.52829981	-0.42850000	1.87176633	2.24809980	-1.29909992	-0.05150000
120.	7.30159998	-1.07709980	1.27815580	1.59000003	-1.56970000	-0.07900000
125.	6.80109978	-1.55370009	1.10469580	2.04799986	-1.84050012	-0.08040000
130.	6.18570042	-2.10540009	0.44599998	2.05599999	-2.05319977	-0.07070000
135.	5.44869995	-2.57630014	-0.41269553	0.10404889	-2.24230003	-0.06010000
140.	4.62150002	-2.83630037	-0.68599981	-0.90670931	-2.40250015	-0.05250000
145.	3.77400017	-3.00359988	-0.70923632	-0.75819981	-2.56549978	-0.05750000
150.	2.91409993	-2.59519982	-0.81486821	-1.18959987	-2.62370014	-0.05560000
155.	2.12480021	-1.91699982	-0.72049987	-1.19699991	-2.61619997	-0.05760000
160.	1.46669960	-1.35029995	0.08090019	-0.42929992	-2.55709982	-0.06110000
165.	0.89789993	-0.71539992	0.36329991	0.27640000	-2.46929979	-0.06580000
170.	0.56690001	-0.37519991	0.12070000	0.06720000	-2.38409996	-0.04450000
175.	0.24730000	-0.10609990	0.06270000	-0.00490000	-2.28093481	-0.02310230
180.	-0.01030000	0.00180000	0.00490000	-0.13800000	-2.17900562	-0.00009760

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.40
PHI= 360.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.07130000	0.04630000	-0.00050000	0.00870000	0.86049992	-0.02020000
5.	0.48679990	0.50009990	-0.02880000	0.07630000	0.90120000	-0.01690000
10.	0.93269998	1.27179992	-0.02679989	0.13789999	0.98829991	0.01440000
15.	1.46090007	2.32500029	0.07960001	0.29759991	1.03520012	0.04840000
20.	2.04449987	3.54879999	0.21080001	-0.02479991	1.01539993	0.06959999
25.	2.70029998	4.98019981	0.29699990	-0.02439991	0.96920002	0.06340000
30.	3.46200013	6.63669968	-0.23399991	0.49849990	0.88239992	0.04940000
35.	4.23660040	8.22519875	-1.73420000	0.80030000	0.76650000	0.03550000
40.	5.20870018	10.17809963	-3.49339986	1.12419987	0.62549990	0.02570000
45.	6.42950058	12.48990059	-5.19399977	1.59539998	0.48040000	0.01420000
50.	7.51199961	14.59510040	-6.00159979	2.11160016	0.33539990	-0.00490000
55.	8.33800030	15.79700089	-6.23520041	4.21350002	0.15759990	-0.01232860
60.	8.96690083	16.33720016	-5.59509993	2.80740023	-0.00025860	-0.01975720
65.	9.35050106	15.90429878	-5.94599581	-1.21198511	-0.17782420	-0.02298110
70.	9.65799999	15.57090092	-7.59287357	-6.93108892	-0.32047570	-0.02429800
75.	9.98970032	15.42140007	-7.96408033	-3.52780271	-0.40720180	-0.02991600
80.	10.21809959	14.35720062	-6.73518229	-0.23729527	-0.35598800	-0.03139800
85.	10.28389835	12.15580177	-6.44640684	-2.60944557	0.34222960	-0.03273000
90.	10.28000069	9.01200008	-5.88335419	-2.41078734	0.27839240	-0.03314840
95.	10.40999794	6.59779978	-5.25536823	-2.50583076	0.07446990	-0.03285000
100.	10.49999905	4.30870008	-4.58343601	-1.39545643	-0.24321990	-0.03564000
105.	10.57349968	2.83700013	-4.70106030	1.78006399	-0.62536001	-0.03770000
110.	10.50800037	1.60000002	-5.61199999	1.44776464	-0.98475093	-0.03612000
115.	10.31670189	0.71779984	-5.34852314	3.06000209	-1.34069991	-0.03862550
120.	9.94639969	0.19190009	-3.89442158	3.78000045	-1.60329986	-0.01790000
125.	9.52910042	-0.02470002	-2.80380034	4.41921043	-1.84644771	-0.02515600
130.	8.64999962	0.42340022	-1.83353877	5.63174248	-2.06935978	-0.02135600
135.	7.47119999	0.20890012	-0.85620213	6.01152515	-2.20877719	-0.02034610
140.	6.36599970	-0.28230000	-1.44150054	2.79626322	-2.39303350	-0.01151660
145.	5.30149937	-0.31289992	-3.33653998	-3.41366196	-2.53682852	-0.01672390
150.	4.30430031	-0.65886182	-2.83770990	-4.19250011	-2.60620070	-0.01354000
155.	3.30509973	-0.63669980	-1.34884119	-4.15274858	-2.60762596	-0.00844360
160.	2.34080005	-0.64259994	0.19745201	-1.66636145	-2.56204128	-0.00572920
165.	1.42550004	-0.32440001	-0.03204130	-0.14998570	-2.48485088	-0.00517220
170.	0.81589992	-0.11049990	-0.15334600	-0.04630001	-2.37900066	-0.00003330
175.	0.25089991	-0.02310000	-0.03300010	-0.09350000	-2.24266005	-0.00018540
180.	-0.17440000	-0.00430000	0.01010000	-0.01756000	-2.17856169	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.50
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.05050000	0.01980000	-0.00090000	0.04110000	0.86049992	0.03010000
5.	0.45899999	0.40019989	-0.01760000	0.12989990	0.92680001	0.03350000
10.	0.98959988	1.25410008	0.05640000	0.16710001	1.01849985	0.03790000
15.	1.53719997	2.39120007	0.12460000	0.32759991	1.05299985	0.04840000
20.	2.08479977	3.56890011	0.22170001	0.01710001	1.03329992	0.06479999
25.	2.72320008	4.67859936	0.21640001	0.02560011	0.99800003	0.06340000
30.	3.37779975	6.55599976	-0.36029992	0.55849993	0.93190002	0.04910000
35.	4.38229990	8.66769981	-1.62439990	-1.18150008	0.84379983	0.03420000
40.	5.40890026	10.70130062	-2.84599996	-1.89696693	0.70510000	0.01130000
45.	6.63630009	12.97319984	-4.40920019	-2.61243343	0.54949993	-0.00970000
50.	7.99780035	15.54179955	-4.91294765	-3.32790017	0.37720001	-0.02040000
55.	8.83170033	16.80933762	-5.15750170	-3.72130036	0.17940000	-0.02630000
60.	9.50030041	17.88140182	-5.39000034	-4.11469984	-0.05020000	-0.03640000
65.	9.78010082	16.52629089	-5.48474503	-5.61839724	-0.20999990	-0.03801940
70.	9.95010090	15.72139931	-5.57949018	-7.12209463	-0.27230000	-0.04207320
75.	10.31729889	15.05500126	-5.29115963	-5.18948460	-0.31430370	-0.04362210
80.	10.69799995	14.06070042	-4.92000055	-3.12113571	-0.18670350	-0.04926060
85.	10.91869926	12.11229992	-4.58510876	-2.54008389	0.50420922	-0.05246320
90.	11.03010082	9.18040085	-4.25021648	-2.24218011	0.44179580	-0.05308270
95.	11.06499958	6.74990034	-4.14094687	-1.57982230	0.21098500	-0.05341120
100.	11.06000137	4.39400005	-4.04217148	-0.88588274	-0.16721120	-0.05296740
105.	11.05910015	2.51879978	-4.18558216	0.74637830	-0.53523523	-0.05181840
110.	10.92249966	1.11879992	-4.15279245	3.81526113	-0.89907682	-0.04982120
115.	10.55399990	0.51665992	-3.71490049	5.52756643	-1.31270003	-0.04260280
120.	10.02680016	-0.03547990	-2.81490021	5.89439964	-1.61379993	-0.03617360
125.	9.25970078	-0.29722023	-0.70570040	3.43589997	-1.86719990	-0.02830000
130.	8.35219955	0.06538001	-0.10832548	0.35519981	-2.09927177	-0.02390000
135.	7.35500050	-0.08699989	0.10200024	1.71059990	-2.24584198	-0.02070910
140.	6.37359953	-0.42461991	-2.51350594	0.28933430	-2.42053509	-0.01436670
145.	5.03539944	-0.56755990	-3.45254374	0.43059123	-2.55103064	-0.01190000
150.	4.12440014	-0.96050000	-3.09220028	-1.10610986	-2.63448620	-0.01024800
155.	3.20549965	-0.79259992	-1.79450011	-3.63118243	-2.64363360	-0.00771600
160.	2.23160005	-0.53839999	-0.00252410	-2.50959969	-2.59274483	-0.00382470
165.	1.50660002	-0.23779991	-0.07843350	-0.27152079	-2.49287748	-0.00376270
170.	0.71259981	-0.06990000	-0.13889261	-0.07750001	-2.40322351	-0.00299150
175.	0.08170000	-0.00400000	0.00434000	-0.06596010	-2.26800013	-0.00326000
180.	-0.24730000	-0.03640000	0.00840000	-0.01096000	-2.20480013	-0.00000950

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.50
PHI= 45.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.04810000	0.01890000	-0.00090000	0.06060000	0.86059982	0.03010000
5.	0.42899999	0.36019990	-0.06760000	0.16489990	0.95179993	0.03420000
10.	0.90729988	1.18079996	-0.04360000	0.31080002	1.04450011	0.03930000
15.	1.45140016	2.31480002	-0.02540000	0.43259990	1.08750010	0.05050000
20.	2.01480007	3.57170010	0.07080001	0.15520009	1.07909966	0.07240000
25.	2.54640007	4.80539989	0.12199990	0.20060009	1.04209995	0.06960000
30.	3.10900021	6.02419996	0.03770000	0.76849991	0.97219992	0.05500000
35.	3.69459987	7.29819965	-0.20630001	-0.93650007	0.87169993	0.00120000
40.	4.38969994	8.61100101	-0.60339993	-3.18580031	0.75080001	-0.04930000
45.	5.50200033	10.46549988	-1.25419998	-3.42720008	0.61259991	-0.09350000
50.	6.52600002	11.78639984	-1.38108134	-3.29254603	0.45760000	-0.13969991
55.	7.44189978	12.68490124	-1.37156987	-2.95889926	0.28090000	-0.18030000
60.	7.86759995	12.65070057	-1.23159993	-2.54427433	0.12899990	-0.20071100
65.	8.05019951	12.20360184	-0.72580004	-2.04980206	0.01820000	-0.22000161
70.	8.21280003	11.41299915	0.24719991	-1.41182899	-0.07123390	-0.23927180
75.	8.37119961	10.57220078	0.46332002	-0.94904649	-0.08064200	-0.24963991
80.	8.50959969	9.44849968	0.67944014	-0.46144426	0.00943390	-0.26047391
85.	8.58119965	7.88539982	0.84833634	-0.01628840	0.47138160	-0.26545191
90.	8.65280056	6.19920063	1.01503623	0.00049043	0.44297320	-0.26811209
95.	8.65370083	4.06479979	0.98803443	0.05745208	0.31870860	-0.26606601
100.	8.61180115	2.30920005	0.95202422	1.84219360	-0.04583460	-0.26136601
105.	8.53499889	0.81659985	0.60011613	1.99109542	-0.41995981	-0.25606391
110.	8.54209900	-0.30330008	0.24723762	4.85653782	-0.82603562	-0.22483210
115.	8.56439972	-0.95582014	1.12960005	6.14200020	-1.19682860	-0.19999990
120.	8.36669922	-1.60834026	1.03372645	5.37430000	-1.51040006	-0.18257810
125.	7.91760015	-1.93997991	0.53516322	4.11040020	-1.76438701	-0.16105610
130.	7.18800020	-2.20702028	0.13880000	3.18100023	-2.00055027	-0.13349999
135.	6.27509975	-2.48897982	-0.13825539	0.10441160	-2.21272373	-0.11134820
140.	5.46490002	-2.57063985	-0.40506202	-0.85246766	-2.38341665	-0.09386051
145.	4.46679974	-2.38936996	-0.77669072	-0.49307883	-2.62697458	-0.07252150
150.	3.51220012	-2.20810008	-0.71189082	-0.18599021	-2.68764400	-0.04759400
155.	2.47740030	-1.64779985	-0.56520861	-0.29389220	-2.65333390	-0.02708000
160.	1.55599988	-1.02799988	-0.32059991	-0.40156510	-2.59101248	-0.01293600
165.	0.86940002	-0.61809993	-0.08700570	-0.22328730	-2.50174522	-0.00954400
170.	0.51899987	-0.36899990	-0.00420950	-0.18928951	-2.41346931	-0.00451580
175.	0.22960000	-0.07600000	0.01612000	-0.11972000	-2.29222012	-0.00274280
180.	-0.03260000	0.00440000	0.01592000	-0.00692000	-2.22459984	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.50
PHI= 90.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.05050000	0.02170000	-0.00090000	0.06060000	0.86059982	0.03010000
5.	0.42899999	0.37069979	-0.05760000	0.06239990	0.92680001	0.03265000
10.	0.88359988	1.03550005	-0.02360000	0.10580000	1.01510000	0.03620000
15.	1.36280000	1.94549990	0.00460000	0.12509990	1.05429995	0.04585000
20.	1.83929980	2.95469999	0.11080001	-0.25290000	1.04380012	0.06140000
25.	2.44880033	4.17999983	0.17199990	-0.39980000	1.00039995	0.06185000
30.	3.10340023	5.37180042	0.09770000	-0.52779990	0.93499982	0.04570000
35.	3.78469968	6.73909998	0.05480000	-0.65590000	0.82489991	0.02825000
40.	4.58209991	8.12269974	0.01280000	-0.78390002	0.69919991	0.01030000
45.	5.51979971	9.60079956	-0.03090000	-0.91979992	0.55449992	0.01275000
50.	6.41860008	10.75179958	-0.07410000	-1.05799985	0.39669991	0.00080000
55.	7.24090099	11.66839886	-0.10860001	-1.19630003	0.21300000	-0.00735000
60.	7.80920029	11.99380112	-0.14309999	-1.12539995	0.04541630	-0.01490000
65.	8.21820068	11.69060040	-0.15279990	-0.99449992	-0.06600000	-0.01945000
70.	8.47429943	10.98670101	-0.35124320	-0.86350000	-0.13222630	-0.01621510
75.	8.47989941	9.60865942	-0.65595973	-0.65769982	-0.11411000	-0.01465800
80.	8.48320007	8.20420074	-0.78834283	-0.78590381	-0.06212800	-0.01508000
85.	8.47319984	6.68160009	-0.90929294	-0.91410762	0.14658380	-0.01770600
90.	8.46780109	5.48300028	-0.83938032	-0.69370842	0.49303800	-0.01544200
95.	8.43649960	4.05060005	-0.60935903	-0.38969290	0.43692160	-0.01328440
100.	8.47520065	2.81960034	-0.37933761	0.14515710	0.04801800	-0.00910000
105.	8.51389885	1.56919992	0.25040001	-0.25177830	-0.41234761	-0.00674160
110.	8.73160076	0.56789994	0.04196840	-1.05688298	-0.86048371	-0.01022600
115.	8.72739983	-0.22725001	-0.75400001	-1.89142919	-1.21325731	-0.01740000
120.	8.24950027	-1.02239990	-0.01310003	-2.94476342	-1.55579984	-0.03490000
125.	7.45549965	-1.37977982	-1.09899998	-3.52652931	-1.83649993	-0.04320000
130.	6.03509998	-1.50312006	-2.59399986	-2.95499992	-2.12050009	-0.02850000
135.	4.96350002	-1.64248002	-1.68811846	-0.45824206	-2.24518013	-0.01569200
140.	4.37010002	-1.82142019	-1.05206835	0.46110210	-2.37650013	-0.00750000
145.	3.76110005	-2.16821003	-0.62242901	0.38876793	-2.57116032	-0.00786400
150.	3.19380045	-2.46499991	-0.47359201	0.20115770	-2.67986989	-0.00799200
155.	2.50059986	-1.99389982	-0.62051600	0.18999051	-2.68526030	-0.00420400
160.	1.78810000	-1.44220006	-0.48886970	0.14045881	-2.61371160	-0.00188470
165.	1.12249994	-0.75669992	-0.11870401	-0.11205290	-2.52787924	-0.00198630
170.	0.59350002	-0.30549991	-0.02906650	-0.10544690	-2.43169451	-0.00486800
175.	0.18279991	-0.02460000	0.02212000	-0.05804000	-2.29472017	-0.00322000
180.	-0.07440000	-0.00360000	0.02839990	0.02094000	-2.20657587	-0.00000070

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.50
PHI= 135.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.05050000	0.01730000	-0.00090000	0.01590000	0.86049992	0.02990000
5.	0.42899999	0.34919989	-0.04260000	-0.04010010	0.92320001	0.03135000
10.	0.88499975	1.16310000	0.00640000	-0.09920000	1.01889992	0.03079000
15.	1.35319996	2.05559993	0.04960000	-0.18240011	1.05159974	0.04195000
20.	1.91200006	3.22060013	0.17080000	-0.65479993	1.03499985	0.05620000
25.	2.45520020	4.35369968	0.25720000	-0.82439989	0.99870002	0.05325000
30.	3.09230018	5.63789988	0.43859991	-0.91909981	0.92799991	0.03790000
35.	3.89479947	7.24319983	0.77539980	-1.18399978	0.83490002	-0.01875000
40.	4.70359993	8.62279987	1.38909996	-1.47069991	0.70929992	-0.03330000
45.	5.91200018	10.52750111	2.26689982	-1.82929993	0.55460000	-0.00215000
50.	6.86190033	11.86820030	3.36499977	-2.23969984	0.40700001	0.06380001
55.	7.41250038	12.35460186	2.81670022	-2.80279970	0.25690001	0.08804990
60.	7.79120064	12.69399834	1.83219993	-3.50239992	0.13620000	0.12390010
65.	8.07379913	12.85209846	0.72879994	-4.08500051	-0.07700000	0.16614990
70.	8.25520039	12.41320038	-0.81809992	-3.63381004	-0.23580000	0.20869990
75.	8.37659931	11.32349968	-0.92401874	-3.05701137	-0.22600000	0.22595000
80.	8.49760056	9.97550011	-1.02993727	-2.49214101	0.02530000	0.24280000
85.	8.55179977	8.29399967	-0.33469519	-2.18377042	0.41499990	0.24374900
90.	8.60220051	6.46070051	0.39780653	-1.87540007	0.46859980	0.24359991
95.	8.54069996	4.42670059	1.77578318	-1.84932876	0.25999990	0.24235000
100.	8.47920036	2.61199999	2.75514364	-1.82325745	-0.04040000	0.23210001
105.	8.42640018	0.94180000	3.51630688	-0.96615928	-0.42420000	0.21000001
110.	8.45359993	-0.30810010	4.10293293	-0.57763427	-0.90310001	0.18549991
115.	8.56150055	-1.20405006	2.89693356	-1.38070250	-1.34229994	0.16469991
120.	8.44849968	-2.09999990	2.74093342	-3.19333053	-1.56949985	0.15080000
125.	8.06159973	-2.89999986	2.94009233	-4.34050035	-1.81250012	0.14430001
130.	7.33360004	-3.34999990	3.03000021	-0.19399989	-2.10960007	0.12299990
135.	6.39509964	-3.20000005	2.78900027	-0.79310000	-2.37629986	0.11028261
140.	5.53960037	-2.75000000	2.21640015	-0.15339988	-2.58979988	0.10340000
145.	4.45689964	-1.98984993	1.56699991	0.21240014	-2.70760012	0.09700000
150.	3.40000010	-1.22970009	-1.64220011	-1.34579992	-2.74219990	0.08629990
155.	2.38250017	-0.79829991	-1.04450011	-1.56579995	-2.69309998	0.06019990
160.	1.54959977	-0.39089990	-0.34279990	-0.97529995	-2.60109997	0.02450000
165.	0.94559991	-0.15070000	0.31479990	0.36700001	-2.50640011	-0.00520000
170.	0.51899987	-0.00640000	0.03670000	0.24430001	-2.40990019	-0.01200000
175.	0.22960000	0.02250000	0.06930000	0.08680000	-2.28730011	-0.00509020
180.	-0.03260000	-0.00600000	0.04330000	-0.01630000	-2.20230007	-0.00001360

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.3)

MACH= 0.50
PHI= 180.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.05050000	0.01730000	-0.00090000	0.06060000	0.85869992	0.03000000
5.	0.45899999	0.41119999	-0.09260000	-0.00510010	0.92619991	0.03200000
10.	0.90660000	1.22539997	-0.09360000	-0.00920000	1.01009965	0.03490000
15.	1.49879992	2.36740017	-0.10040000	-0.02110001	1.05380011	0.04390000
20.	2.08909988	3.65159965	-0.02920000	-0.41019991	1.06049991	0.05880000
25.	2.77439976	5.21759987	-0.00300011	-0.67319983	1.01970005	0.05580000
30.	3.52479982	6.88490009	-0.11230001	-1.14450002	0.96679991	0.03980000
35.	4.39479971	8.85159874	-0.16020001	-2.12650013	0.87010002	0.02370000
40.	5.50090075	11.14980030	-0.08860001	-3.87209988	0.75070000	0.00170000
45.	6.81620026	13.65579987	0.53640002	-4.23850012	0.60189992	-0.02660000
50.	8.27379990	16.43039894	1.48350000	-4.53500032	0.41380000	-0.04550000
55.	9.27509975	17.52200699	2.70819998	-4.39610004	0.20230000	-0.05650000
60.	9.70250034	17.48299789	4.20209980	-3.66510057	-0.02750000	-0.06850000
65.	9.93229961	16.89550018	4.71959972	-2.49570012	-0.29189980	-0.08950000
70.	10.14719963	16.15569878	3.52739954	-1.47570002	-0.44169980	-0.11149999
75.	10.42759895	14.96389961	2.07189989	-1.33220005	-0.26980001	-0.12570000
80.	10.84799957	13.34040070	1.55530012	-1.21046674	-0.00810000	-0.13940001
85.	11.13870049	11.27940178	1.64220691	-1.08873343	0.39300001	-0.13410001
90.	11.20849991	9.25650120	2.28500342	-0.96700007	0.23789990	-0.11220000
95.	11.24719810	6.68379927	2.91733456	-0.88846266	0.04010000	-0.08469990
100.	11.15590000	4.52580023	3.54733276	-0.80992520	-0.19239990	-0.06060000
105.	10.94240093	2.73490000	4.13885784	-1.47929823	-0.48659980	-0.04240000
110.	10.69989967	1.21759999	4.50314474	-2.20199990	-0.90450001	-0.02760000
115.	10.32700062	0.23380011	3.89327288	-4.47844362	-1.32369995	-0.01850000
120.	9.87400055	-1.07499993	2.36600018	-5.66520023	-1.55060005	-0.01040000
125.	9.10110092	-1.47000003	1.44240046	-4.95749998	-1.80780005	-0.00650000
130.	8.30039978	-0.98271984	1.28039980	-5.36380005	-2.06059980	-0.00680000
135.	7.40770054	-0.65960002	0.51509953	-4.96829987	-2.25409985	-0.01083130
140.	6.53739977	-0.51690000	3.41919994	-3.73930001	-2.40119982	-0.01340140
145.	5.57549953	-0.74415004	4.01760006	-2.65559983	-2.50880003	-0.01500000
150.	4.33240032	-1.22140002	3.15510011	-1.00389993	-2.62010002	-0.01540000
155.	3.20749974	-1.00179982	-0.27250004	0.19080007	-2.61840010	-0.01960000
160.	2.18570018	-0.68010002	-0.21430001	-0.18280011	-2.57840014	-0.02130000
165.	1.40529990	-0.30299991	0.41479990	0.41700000	-2.49109983	-0.01930000
170.	0.73769993	-0.07230000	0.10320006	0.24970001	-2.41020012	-0.01560000
175.	0.19569990	-0.00480000	0.00710000	0.12550001	-2.27110004	-0.00807240
180.	-0.08210000	-0.01110000	-0.01140000	0.03020000	-2.20249987	-0.00002740

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.50
PHI= 225.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.05050000	0.01670000	-0.00090000	0.06060000	0.86600000	0.03010000
5.	0.42899999	0.29919979	0.00430000	0.06239990	0.93629992	0.03235000
10.	0.91369981	1.09389997	0.00350000	0.10580000	1.03000010	0.03560000
15.	1.45230019	2.20140028	0.01960000	0.12509990	1.07620001	0.04525000
20.	1.92069995	3.32870007	0.13080001	-0.10630000	1.06690001	0.06500000
25.	2.45570016	4.53620005	0.19699991	-0.26099980	1.03480005	0.05745000
30.	3.05600023	5.91390038	0.12770000	-0.62249982	0.97560000	0.04160000
35.	3.67199969	7.10220003	0.13760000	-2.31414986	0.86874992	0.02405000
40.	4.31200027	8.22649956	0.14749999	-4.00580025	0.76189983	0.00650000
45.	5.27100039	9.64159966	0.89639997	-4.34969997	0.61379993	-0.00975000
50.	6.52600002	11.34180069	0.86959988	-4.00290012	0.46950001	-0.02790000
55.	7.53060007	12.41499996	0.58929998	-3.16570020	0.31840000	-0.04165000
60.	8.19790077	12.99830055	0.36730000	-2.17850018	0.16800000	-0.03980000
65.	8.66819954	12.98150063	0.23859990	-1.53869990	-0.02090000	-0.03635000
70.	9.06600094	12.66470051	0.18249990	-0.91479993	-0.13069990	-0.02730000
75.	9.34399891	12.34819889	0.08970001	-0.40950000	-0.07780000	-0.02225000
80.	9.59399986	11.46710014	-0.08270000	-0.11300000	0.07240000	-0.02130000
85.	9.73169899	9.65939903	-0.04140000	0.02060000	0.51129991	-0.02605000
90.	9.70780182	7.66109896	0.04200000	0.37199980	0.49219990	-0.03000000
95.	9.63180065	5.51029968	0.12520000	0.63769990	0.32370001	-0.02855000
100.	9.46400070	3.58529997	0.27279991	0.67109472	0.03030000	-0.02510000
105.	9.32499886	2.26020002	-0.08510020	0.74600053	-0.36430001	-0.02140000
110.	9.10599995	1.03060007	2.18340325	0.98600036	-0.97549993	-0.02510000
115.	8.97589874	-0.01575011	4.02506828	1.91829038	-1.42109990	-0.02500000
120.	8.77130127	-1.06209993	4.69680023	3.32079983	-1.77979994	-0.02520000
125.	8.28130054	-1.78363979	4.48688269	3.77629972	-2.00010014	-0.02470000
130.	7.32810068	-2.30854011	3.79260015	2.68490005	-2.15310001	-0.02160000
135.	6.29819965	-2.71352506	2.56059980	-0.22770017	-2.30159998	-0.02044400
140.	5.17440033	-2.88671994	0.87893995	-0.79559994	-2.44360018	-0.02141920
145.	4.09979963	-2.64500999	-0.24999976	-1.62080003	-2.58309984	-0.01890000
150.	3.13890004	-2.35329986	-1.34220016	-1.75469995	-2.62639999	-0.01530000
155.	2.29780006	-1.51889992	-0.64450014	-1.62179983	-2.61399984	-0.02000000
160.	1.42949986	-1.02999985	0.12740001	-0.97609985	-2.57509971	-0.02120000
165.	0.91869992	-0.60810000	0.36479992	-0.01690000	-2.48899984	-0.01910000
170.	0.51899987	-0.31169990	0.13670000	0.14430000	-2.40969992	-0.01391480
175.	0.22960000	-0.08440000	0.06930000	0.03680000	-2.27110004	-0.00786660
180.	-0.03260000	0.00600000	0.05640000	-0.02360000	-2.20319986	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.50
PHI= 270.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.04810000	0.01000000	-0.00090000	0.01590000	0.86089993	0.03000000
5.	0.42899999	0.29369989	-0.05260000	0.06239990	0.90649992	0.03190000
10.	0.88540000	1.01489997	-0.01360000	0.10580000	0.96810000	0.03570000
15.	1.35109997	1.87709987	0.01960000	0.12509990	0.98210001	0.04690000
20.	1.85719991	2.81680012	0.13080001	-0.25290000	0.96599990	0.06280000
25.	2.44829988	3.92929983	0.19699991	-0.31189990	0.91020000	0.06090000
30.	3.10200024	5.15219975	0.12770000	-0.30409980	0.84859991	0.04630000
35.	3.78469968	6.37830019	0.13890000	-1.65400004	0.77149981	-0.00720000
40.	4.61760044	7.92119980	0.23709990	-4.00580025	0.67330003	-0.01670000
45.	5.63830042	9.48320007	0.34630001	-4.34969997	0.54629987	-0.00670000
50.	6.67370033	10.92120075	0.46510002	-3.48289990	0.40189990	-0.00040000
55.	7.59400034	12.03939915	0.53169990	-2.80490017	0.23899990	0.00600000
60.	8.07360077	12.34469986	0.50689977	-1.72620010	0.07590000	0.01270000
65.	8.29680061	12.01109886	0.35519990	-1.35730004	-0.05740000	0.00230000
70.	8.40079975	11.10489941	0.13090000	-1.08579965	-0.08940000	-0.00480000
75.	8.48199940	9.71070004	-0.09939990	-1.68470001	0.03680000	-0.01240000
80.	8.57159996	8.28980064	-0.09100000	-1.49670005	0.20050000	-0.02020000
85.	8.63199997	7.02799988	-0.11069310	-1.09519994	0.75559992	-0.02950000
90.	8.69240093	5.85349989	-0.13216050	-0.60780001	1.01149964	-0.03890000
95.	8.70399952	4.40779972	-0.19177830	-0.17120001	0.80589992	-0.03620000
100.	8.70560074	3.05990005	-0.25139609	0.41044310	0.41029990	-0.03180000
105.	8.71419907	1.86650026	-0.30849755	0.37907901	-0.29429990	-0.02780000
110.	8.57080065	0.98049998	-0.44320041	0.40340000	-0.99290001	-0.02380000
115.	8.35459900	0.21006986	0.34979981	0.76162803	-1.45840001	-0.02010000
120.	7.95480013	-0.56035990	0.59280002	1.41985619	-1.78760004	-0.01720000
125.	7.23769951	-0.96013999	0.57920003	5.09810019	-2.04239988	-0.01610000
130.	6.35880041	-1.40779996	0.16560000	5.02499962	-2.21280003	-0.01370000
135.	5.20129967	-1.63202000	-0.20320000	2.72620034	-2.36269999	-0.01130000
140.	4.22189999	-1.75136006	0.07800001	-1.04619980	-2.50720000	-0.00937140
145.	3.39500046	-1.82582998	0.31500000	-0.66179991	-2.61119986	-0.00758750
150.	2.65590024	-1.85030007	0.25240001	-1.02839983	-2.68590045	-0.00890000
155.	1.85460019	-1.26779997	0.40650001	-1.61040008	-2.65740013	-0.01242940
160.	1.19799995	-0.85279995	-0.11000001	-1.25249994	-2.58339977	-0.01143770
165.	0.69879991	-0.43250000	0.36479992	-0.01690000	-2.49020004	-0.00871550
170.	0.44889981	-0.19810000	0.09790000	0.18130000	-2.39260006	-0.00567350
175.	0.22080000	-0.02980000	-0.03630000	0.32100001	-2.29569340	-0.00274210
180.	0.03660000	0.00270000	-0.02350000	0.35499990	-2.20480013	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.50
PHI= 315.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.05050000	0.01490000	-0.00090000	0.06060000	0.86699992	0.02950000
5.	0.42899999	0.33769989	-0.05260000	0.06239990	0.91259992	0.03290000
10.	0.89419991	1.11650014	-0.01360000	0.10580000	0.97420001	0.03690000
15.	1.38919997	2.05380011	0.01960000	0.12509990	0.98000002	0.04690000
20.	1.90740001	3.08680034	0.13080001	-0.25290000	0.96210003	0.06760000
25.	2.48140001	4.26639986	0.19699991	-0.31189990	0.91719991	0.06090000
30.	3.10940027	5.57999992	0.12770000	-0.25569990	0.84420002	0.04610000
35.	3.78469968	6.83529997	0.08980000	-1.65400004	0.74449992	0.03070000
40.	4.60430050	8.21990013	0.04850000	-3.97809982	0.64539993	0.02110000
45.	5.46789980	9.51179886	-0.01450000	-4.34669971	0.51459992	0.01590000
50.	6.43830013	10.70309925	-0.09560007	-3.22770023	0.36839980	0.01530000
55.	7.51359987	12.10290051	-0.19769999	-0.58369982	0.20400000	0.01190000
60.	8.22739983	12.83699989	-0.27390000	1.02370000	0.07879998	-0.00100000
65.	8.70339966	13.47320080	-0.40089980	0.45690000	-0.05370000	-0.01450000
70.	9.03119946	13.18710041	-0.51669997	0.14629990	-0.15189990	-0.03180000
75.	9.32240009	12.55569935	-0.59609997	-0.08569500	-0.10900000	-0.04790000
80.	9.50040054	11.23550034	-0.81599981	-0.31769010	0.13159990	-0.06340000
85.	9.61380005	9.17639923	-1.13749993	-0.41973370	0.61000001	-0.07740000
90.	9.65390110	7.24999952	-1.45899987	-0.51573372	0.58139992	-0.09130000
95.	9.56059933	5.10289955	-1.97490084	-0.58318400	0.41490000	-0.08510000
100.	9.46739960	3.22359991	-2.49080086	-0.64930642	0.01390000	-0.07480000
105.	9.35079956	1.49450004	-3.20600128	-0.72861540	-0.46719980	-0.06420000
110.	9.20670033	0.23480001	-2.91171575	-0.66043454	-0.97379982	-0.05150000
115.	8.91829872	-0.60759979	-2.11395431	-0.31521732	-1.37039995	-0.03890000
120.	8.58480072	-1.44999993	-1.86000001	0.33000010	-1.69970012	-0.02570000
125.	7.89799976	-2.09999990	-1.90799999	0.64600003	-1.90349984	-0.01430000
130.	6.71800041	-2.54999995	-2.35599971	-0.13800001	-2.09200001	-0.00270000
135.	5.44400024	-2.70000005	-2.68773890	-1.41527295	-2.25680017	0.00520000
140.	4.40439987	-2.50000000	-2.36947775	-1.03990746	-2.41179991	0.01750000
145.	3.33360004	-2.06974983	-1.76000047	-0.60780370	-2.56260014	0.01170000
150.	2.51360011	-1.58949971	-1.28345799	-0.52569991	-2.67100000	-0.01540000
155.	1.82449973	-0.97099996	-0.63119996	-0.26785001	-2.66090012	-0.01570000
160.	1.25789988	-0.44049999	-0.02160001	-0.06000000	-2.57450008	-0.01310000
165.	0.79320002	-0.06810000	0.36479992	0.16700000	-2.49410009	-0.00660000
170.	0.51899987	0.03180000	0.21229990	0.14430000	-2.40269995	-0.00280000
175.	0.20089990	0.04190000	0.06930000	0.03680000	-2.28779984	-0.00220000
180.	-0.07430000	-0.02090000	0.05640000	-0.02360000	-2.20459986	-0.00[illegible]1050

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.50
PHI= 360.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.05050000	0.01980000	-0.00090000	0.04110000	0.86049992	0.03010000
5.	0.45899999	0.40019989	-0.01760000	0.12989990	0.92680001	0.03350000
10.	0.98959988	1.25410008	0.05640000	0.16710001	1.01849985	0.03790008
15.	1.53719997	2.39120007	0.12460000	0.32759991	1.05299985	0.04840000
20.	2.08479977	3.56890011	0.22170001	0.01710001	1.03329992	0.06479999
25.	2.72320008	4.67859936	0.21640001	0.02560011	0.99800003	0.06340000
30.	3.37779975	6.55599976	-0.36029992	0.55849993	0.93190002	0.04910000
35.	4.38229990	8.66769981	-1.62439990	-1.18150008	0.84379983	0.03420000
40.	5.40890026	10.70130062	-2.84599996	-1.89696693	0.70510000	0.01130000
45.	6.63630009	12.97319984	-4.40920019	-2.61243343	0.54949993	-0.00970000
50.	7.99780035	15.54179955	-4.91294765	-3.32790017	0.37720001	-0.02040000
55.	8.83170033	16.80933762	-5.15750170	-3.72130036	0.17940000	-0.02630000
60.	9.50030041	17.08140182	-5.39000034	-4.11469984	-0.05020000	-0.03640000
65.	9.78010082	16.52629089	-5.48474503	-5.61839724	-0.20999990	-0.03801940
70.	9.95010090	15.72139931	-5.57949018	-7.12209463	-0.27230000	-0.04207320
75.	10.31729889	15.05500126	-5.29115963	-5.18948460	-0.31430370	-0.04352210
80.	10.69799995	14.06070042	-4.92000055	-3.12113571	-0.18670350	-0.04926060
85.	10.91869926	12.11229992	-4.58510876	-2.54008389	0.50420922	-0.05246320
90.	11.03010082	9.18040085	-4.25021648	-2.24218011	0.44179580	-0.05308270
95.	11.06499958	6.74990034	-4.14094687	-1.57982230	0.21098500	-0.05341120
100.	11.06000137	4.39400005	-4.04217148	-0.88588274	-0.16721120	-0.05296740
105.	11.05910015	2.51879978	-4.18558216	0.74637830	-0.53523523	-0.05181840
110.	10.92249966	1.11879992	-4.15279245	3.81526113	-0.89907682	-0.04982120
115.	10.55399990	0.08334011	-3.71490049	5.52756643	-1.31270003	-0.04260280
120.	10.02680016	-0.03547990	-2.01490021	5.89439964	-1.61379993	-0.03617360
125.	9.25970078	-0.29722023	-0.70570040	3.43589997	-1.86719990	-0.02830000
130.	8.35219955	0.06538081	-0.10832548	0.35519981	-2.09927177	-0.02390000
135.	7.35500050	-0.08699989	0.10200024	1.71059990	-2.24584198	-0.02070910
140.	6.37359953	-0.42461991	-2.51350594	0.28933430	-2.42053509	-0.01436670
145.	5.03539944	-0.56755990	-3.45254374	0.43059123	-2.55103064	-0.01190000
150.	4.12440014	-0.96050000	-3.09220028	-1.10610986	-2.63448620	-0.01024800
155.	3.20549965	-0.79259992	-1.79450011	-3.63118243	-2.64363360	-0.00771600
160.	2.23160005	-0.53859999	-0.00252410	-2.50959969	-2.59274483	-0.00382470
165.	1.50660002	-0.23779991	-0.07843350	-0.27152079	-2.49287748	-0.00376270
170.	0.71259981	-0.06990000	-0.13889261	-0.07750001	-2.40322351	-0.00299150
175.	0.08170000	-0.00400000	0.00434000	-0.06596010	-2.26800013	-0.00326000
180.	-0.24730000	-0.03640000	0.00840000	-0.01096000	-2.20480013	-0.00000950

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.55
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.03055000	0.01185000	-0.02225000	0.00845000	0.86944991	0.03570000
5.	0.44595000	0.38124999	-0.04180000	0.09975000	0.93685001	0.03385000
10.	0.91564989	1.14815009	-0.00515000	0.12695000	1.02950001	0.03200000
15.	1.43419993	2.21090007	0.07240000	0.14324990	1.06165004	0.03250000
20.	1.98349988	3.40635014	0.13235000	-0.18549991	1.04215002	0.03520000
25.	2.63405013	4.71619940	0.03905000	-0.08990000	1.00115013	0.03050000
30.	3.39854990	6.59109974	-0.35129991	0.37889999	0.91490000	0.01930000
35.	4.39970016	8.75554943	-1.47025001	0.19255000	0.81180000	0.00775000
40.	5.50005007	11.01739979	-2.56464982	0.21121660	0.65555000	-0.00690000
45.	6.82715034	13.64470005	-4.36285019	0.25448331	0.50629991	-0.01975000
50.	8.25070095	16.39519882	-5.18952370	0.38630000	0.33315000	-0.02803750
55.	9.51620007	18.53636932	-5.09235048	0.46749967	0.15705000	-0.03287810
60.	10.66870022	19.76105118	-4.72644997	-1.17909992	-0.03740000	-0.03960000
65.	11.27615070	19.82744598	-4.74332905	-2.16536808	-0.19440000	-0.04271540
70.	11.53810120	19.02814865	-5.28007174	-5.62863350	-0.21790290	-0.04682890
75.	11.76544952	17.80775070	-5.36141062	-4.16658211	-0.23875190	-0.04995840
80.	11.93774796	16.11511993	-5.13392019	-2.89152332	-0.07636380	-0.05395230
85.	12.05195045	13.12314987	-4.98504496	-2.4629 57	0.48910531	-0.05494650
90.	12.05195141	9.66395092	-4.74560499	-2.2760. ,7	0.52973652	-0.05457510
95.	12.02854919	7.12655020	-4.65993500	-1.97226522	0.26970091	-0.05393920
100.	11.99775028	4.55800056	-4.31808567	-1.05259597	-0.10314550	-0.05507870
105.	11.96665096	2.71764994	-4.24003363	-0.01113141	-0.47367340	-0.04991120
110.	11.62395000	1.24739993	-4.37388182	2.94842839	-0.85473841	-0.04734060
115.	10.84445000	0.19578521	-3.82732105	3.90929961	-1.29532194	-0.03183940
120.	10.15125084	-0.83131009	-2.43202209	2.72311306	-1.60988402	-0.03152680
125.	9.27410030	-1.25104022	-1.66462111	1.07438195	-1.86929536	-0.03271580
130.	8.22589970	-1.18768990	-1.57379389	-1.06044996	-2.09307456	-0.02572520
135.	7.29605055	-1.12264991	-1.93041635	-0.48920000	-2.26347995	-0.02059920
140.	6.22449970	-0.92274004	-3.14490318	-1.35628307	-2.44391012	-0.01304120
145.	5.03079939	-0.74714506	-3.48602176	-1.33269477	-2.57939315	-0.01374400
150.	4.14820004	-0.96605003	-2.90567422	-1.27998078	-2.65323114	-0.00558170
155.	3.17864990	-0.84995002	-1.47560000	-1.42272139	-2.67232418	-0.00603400
160.	2.18365002	-0.56234992	-0.15561199	-0.94554985	-2.62547255	-0.00375730
165.	1.41589999	-0.19510001	0.00753330	0.06852011	-2.52486849	-0.00329670
170.	0.78160000	-0.00365000	-0.03930370	-0.02088550	-2.43606138	-0.00271300
175.	0.27825001	0.03730000	-0.00093000	-0.05733010	-2.31274533	-0.00258540
180.	-0.06935000	0.00610000	0.00820000	-0.00692000	-2.24049997	-0.00000700

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.55
PHI= 45.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.02935000	0.01205000	-0.02225000	0.01820000	0.86040002	0.03750000
5.	0.41595000	0.36454999	-0.07930000	0.10225000	0.94489992	0.04220000
10.	0.84449989	1.09919989	-0.08015000	0.16880001	1.02110004	0.03765000
15.	1.34630001	2.14860010	-0.04010000	0.15074991	1.04985011	0.02425000
20.	1.90534997	3.36835027	0.03740000	-0.06625001	1.03750002	0.02450000
25.	2.49840021	4.71600008	0.17035002	-0.07740000	1.00010002	0.00995000
30.	3.16615009	6.13345003	0.24719991	0.30459991	0.93279982	-0.01085000
35.	3.95085025	7.69099998	0.13414980	-0.54165006	0.82660002	-0.05095000
40.	4.86584997	9.38140106	-0.28769991	-1.65170014	0.69575000	-0.08945000
45.	6.03630018	11.32594967	-0.89700001	-1.67739987	0.56779993	-0.12500000
50.	7.17654991	12.95059967	-2.12094092	-1.48582292	0.42614990	-0.16320001
55.	8.19099998	14.12040138	-1.81788504	-1.10074949	0.29065001	-0.20320000
60.	8.92945004	14.68630028	-1.39287376	-0.61053717	0.15703771	-0.22542830
65.	9.42604923	14.48125172	-0.88645160	0.04324901	0.05385600	-0.24412501
70.	9.70425034	13.61935043	-0.16170001	0.69388556	-0.03869590	-0.26388791
75.	9.79845047	12.05620003	0.14547992	0.42115250	-0.02781700	-0.28065360
80.	9.81250000	10.48124981	0.43429482	0.12480628	0.07587930	-0.29526842
85.	9.86934948	8.54142952	0.60567945	-0.10303140	0.47551861	-0.30281591
90.	9.88720036	6.81505060	0.78604800	0.03374523	0.56850660	-0.30375031
95.	9.84925079	4.81559992	0.85760176	0.64476389	0.37292230	-0.29992241
100.	9.75425053	3.01999998	0.86341214	2.05006766	-0.00087180	-0.29238972
105.	9.54115009	1.35829985	0.76741445	3.42494774	-0.43116450	-0.28087661
110.	9.29969978	-0.07925019	0.64205325	5.14574432	-0.83197361	-0.25267321
115.	9.00479984	-1.36598504	0.43659991	5.40519285	-1.18464470	-0.22155300
120.	8.48629951	-2.27558017	-0.33701241	2.69440603	-1.50531530	-0.20133899
125.	7.87520075	-2.73896003	-0.64530915	1.31799638	-1.77125871	-0.17504309
130.	7.06860065	-3.11219001	-0.77297151	2.35155249	-2.00501966	-0.14624800
135.	6.12489986	-3.17456007	-0.48525581	0.62440574	-2.21727109	-0.11924141
140.	5.27769995	-2.97187996	-0.11162204	0.37279430	-2.40525270	-0.10000920
145.	4.31519985	-2.50712252	-0.19856003	1.37855756	-2.63290358	-0.07748550
150.	3.40300035	-2.16415000	-0.24642530	0.99740535	-2.70948935	-0.05360900
155.	2.47305012	-1.59520006	-0.42558011	0.57179290	-2.68830299	-0.03303800
160.	1.62744987	-1.06375003	-0.43805411	0.03310391	-2.62148976	-0.01546000
165.	0.94799978	-0.61105001	-0.45954290	-0.13429360	-2.53408313	-0.01050580
170.	0.53430003	-0.30745000	-0.53565532	-0.20539470	-2.44837689	-0.00701750
175.	0.21935000	-0.05210000	-0.43965000	-0.11648000	-2.32491016	-0.00284140
180.	-0.05705000	-0.01280000	0.01532000	-0.01106000	-2.24685001	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.55
PHI= 90.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.03110000	0.01370000	-0.01690000	0.01820000	0.86474991	0.03560000
5.	0.41595000	0.35159999	-0.05985000	0.06365000	0.93159992	0.03155000
10.	0.83264989	1.01139998	-0.03070000	0.08380000	1.01045001	0.02975000
15.	1.30200016	1.93159997	0.01400000	0.02324990	1.03869975	0.03045000
20.	1.81760001	2.98940015	0.08935000	-0.25775000	1.02390003	0.03210000
25.	2.44960022	4.28294992	0.13744999	-0.33384991	0.97934991	0.02770000
30.	3.14525032	5.64580011	0.11610000	-0.20174980	0.91109991	0.02020000
35.	3.91054988	7.13885069	0.10925001	-0.01142390	0.80320001	0.01230000
40.	4.76950026	8.65384960	0.10290001	0.05695000	0.65135002	0.00711450
45.	5.76265001	10.20709991	0.06785000	0.06218490	0.50690001	0.00398600
50.	6.79530001	11.64624977	0.02300000	-0.00129630	0.36669998	-0.00253600
55.	7.85545111	12.99379921	-0.03956960	-0.19326200	0.20410000	-0.00760800
60.	8.86215019	14.02900137	-0.10846060	-0.29077190	0.06785810	-0.01248330
65.	9.73785019	14.25615025	-0.17961770	-0.45827863	-0.02720000	-0.01645780
70.	10.05514812	13.44464970	-0.38922510	-0.56872080	-0.07823220	-0.01328130
75.	10.00354950	11.40904999	-0.63179904	-0.50238490	-0.06826770	-0.01202680
80.	9.97424984	9.35910130	-0.91382843	-0.65655190	0.03513070	-0.01489520
85.	9.93144989	7.55585003	-0.88985193	-0.80320263	0.21581841	-0.01671850
90.	9.84890079	6.23400021	-0.78935564	-0.59815431	0.55656773	-0.01478460
95.	9.75479984	4.58669996	-0.71617144	-0.29009698	0.47538960	-0.01405960
100.	9.73365021	3.20615005	-0.39191613	0.18157710	0.10482790	-0.01234280
105.	9.66634941	1.69530022	0.22128172	-0.10388000	-0.37493771	-0.00527920
110.	9.52764988	0.32820001	-0.07889770	-0.93554151	-0.83692342	-0.01069520
115.	9.29754925	-1.11455238	-1.03044033	-2.21843433	-1.19875884	-0.01742180
120.	8.46829987	-2.59600019	-0.61530000	-2.97068167	-1.54580593	-0.03219300
125.	7.11309958	-3.30750990	-0.67434192	-2.50305319	-1.83167255	-0.04011440
130.	5.60575008	-3.65253997	-1.67369986	-1.66404974	-2.10809994	-0.03150000
135.	4.83675003	-3.82781029	-1.63055921	-0.47662100	-2.25254011	-0.01623670
140.	4.34210014	-3.37164021	-0.88049310	0.35333911	-2.41075826	-0.01004070
145.	3.73905015	-2.67170262	-0.39811450	0.52752781	-2.58242321	-0.00981800
150.	3.26615047	-2.46729970	-0.35990271	0.38100332	-2.69613838	-0.00966800
155.	2.67720008	-1.90044999	-0.46836782	0.02647400	-2.70741630	-0.00611400
160.	1.84700000	-1.36255002	-0.53206390	-0.26180673	-2.63963437	-0.00362630
165.	1.08340001	-0.69195002	-0.29223162	-0.27602640	-2.55253172	-0.00275860
170.	0.57765001	-0.28015000	-0.03495430	-0.08036640	-2.46374416	-0.00408440
175.	0.18390000	-0.01005000	-0.02684000	-0.01167000	-2.32773018	-0.00179810
180.	-0.06470000	-0.01225000	0.01759000	0.01359000	-2.23928785	-0.00000030

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.55
PHI= 135.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.03110000	0.01130000	-0.02225000	-0.00415000	0.85429990	0.03620000
5.	0.41595000	0.34094989	-0.03930000	0.00615000	0.90619981	0.03885000
10.	0.83334988	1.07525015	-0.00290000	-0.03120000	0.99709982	0.04005000
15.	1.29719996	1.97114992	0.06140000	-0.14925011	1.02250004	0.01600000
20.	1.83709991	3.12960029	0.19740000	-0.48870003	1.00584996	0.01660000
25.	2.45280027	4.44324970	0.34484991	-0.57740003	0.97250003	0.01510000
30.	3.16160035	5.89624977	0.53775001	-0.43489993	0.90850002	0.01025000
35.	4.05095005	7.63690042	0.80834991	0.28795001	0.80820000	-0.00065000
40.	4.99720001	9.32244968	1.52304971	-0.33240002	0.67220002	0.00525000
45.	6.10254995	11.16765118	2.28725004	-0.81555003	0.52869982	0.03455000
50.	7.26805019	12.68580055	2.96744990	-1.27440000	0.38765001	0.08380000
55.	8.26324940	13.81950188	2.48025012	-1.97340000	0.24535000	0.10574999
60.	9.02360058	14.94524860	1.48495007	-2.70410013	0.12200000	0.13614991
65.	9.43119907	15.20149994	0.48184991	-3.58945036	-0.05230000	0.16794990
70.	9.71630001	14.87894917	-0.65975004	-3.60485530	-0.16384991	0.19849999
75.	9.83909988	13.65084934	-1.06513095	-3.45802855	-0.12100000	0.21360001
80.	9.90685081	11.84765053	-1.22456872	-3.20912051	0.13284990	0.22740000
85.	9.97744942	9.76389980	-0.97225624	-3.04613256	0.43650001	0.22904989
90.	10.03190041	7.32985067	-0.66239649	-2.81855631	0.52429992	0.22399990
95.	9.98939991	5.19540071	0.12195149	-2.71428227	0.34055001	0.21920000
100.	9.81510067	3.33420014	0.88902050	-2.63001776	0.02695000	0.21165001
105.	9.66504955	1.70155001	1.37114966	-2.74470282	-0.36085001	0.19905001
110.	9.43284988	0.24115002	1.77207327	-2.43547392	-0.86664993	0.18160000
115.	9.13625050	-0.85798740	1.98839343	-2.50068402	-1.28664994	0.16615000
120.	8.56199932	-2.04314995	2.22056651	-1.25406516	-1.54635000	0.14924991
125.	7.90480042	-2.73584986	2.71874619	-1.46280658	-1.78725004	0.14044991
130.	7.14245033	-3.28903985	3.25520015	-0.58503067	-2.06085014	0.12469990
135.	6.31114960	-3.43680924	2.73735023	-0.21593732	-2.31865001	0.11139130
140.	5.50160074	-3.31876016	1.80665004	0.02500000	-2.55585003	0.09325000
145.	4.52099991	-2.27030230	0.76800007	-0.15230009	-2.68995023	0.08445000
150.	3.59040022	-1.44515002	-1.62020016	-1.11519992	-2.74475002	0.06755000
155.	2.61135006	-0.75444990	-1.12559998	-1.84930003	-2.71250010	0.04355000
160.	1.73880005	-0.32385001	-0.23680000	-1.16680002	-2.63069987	0.01585000
165.	1.03900003	-0.05455000	0.64834994	0.16085000	-2.53139997	-0.00705000
170.	0.53430003	0.05485000	0.58375001	0.21140000	-2.44435000	-0.01038470
175.	0.23305000	0.05765000	0.51840001	0.06640001	-2.33590007	-0.00429510
180.	-0.05705000	-0.02795000	0.04935000	-0.04355000	-2.24098277	-0.00310680

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.55
PHI= 180.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.03110000	0.01115000	-0.00815000	0.02570000	0.85955000	0.03810000
5.	0.47830001	0.48134999	-0.07680000	0.00475000	0.90770000	0.03300000
10.	0.94124991	1.16109121	-0.07515001	-0.02620000	0.99269992	0.02880000
15.	1.51695013	2.32230020	-0.03260000	-0.20860000	1.02360010	0.02760000
20.	2.12535000	3.67610002	0.04740000	-0.39895001	1.01339996	0.02910000
25.	2.90295005	5.44194984	0.17295001	-0.57679981	0.96635002	0.01855000
30.	3.80109978	7.40215063	0.25624982	-0.63760000	0.90214992	0.01135000
35.	4.84829998	9.70459938	0.41240001	-0.63285005	0.80720001	0.00330000
40.	6.02670050	12.21959972	0.67999989	-1.65310001	0.67734993	-0.00960000
45.	7.40545034	14.93715000	1.45925009	-2.15515018	0.53079993	-0.02840000
50.	8.88895035	17.79969978	2.37989998	-2.57205009	0.35835001	-0.04430000
55.	10.06360054	19.44270325	3.35710001	-2.95325017	0.16090000	-0.05655000
60.	10.88870144	20.07784843	4.36084986	-2.63470030	-0.02470000	-0.06820000
65.	11.32985115	19.93280220	4.77556229	-1.77670002	-0.27359980	-0.08705001
70.	11.56105042	19.11649895	4.23080015	-1.16510010	-0.37930000	-0.10620000
75.	11.66509914	17.59830093	3.44960880	-1.00104916	-0.18095000	-0.12040000
80.	11.82859993	15.39505196	3.03663230	-0.85983592	0.08180000	-0.13255000
85.	12.00015068	12.45635128	2.96165729	-0.72765708	0.42105001	-0.13450000
90.	12.00609970	9.79195118	3.32049251	-0.61260015	0.38205001	-0.12560001
95.	11.94209957	7.11194992	3.64593720	-0.44936207	0.15764990	-0.10810000
100.	11.79055023	4.88610029	3.99098635	-0.37743646	-0.08835000	-0.09025000
105.	11.64810181	3.01180005	4.19859362	-0.40337420	-0.40669990	-0.07220000
110.	11.37680054	1.47035003	4.61217260	-1.36270010	-0.85595000	-0.05275000
115.	10.83475113	0.12170511	4.00136757	-2.52156878	-1.25230002	-0.04085000
120.	10.29314995	-1.28100013	2.58773518	-2.73078036	-1.50905013	-0.03020000
125.	9.56955051	-2.05852985	2.19880080	-2.14910436	-1.77970004	-0.02090000
130.	8.79804993	-2.12589002	2.33444643	-1.94519246	-2.02565002	-0.01550000
135.	7.88490009	-2.07114983	2.41659999	-1.71480000	-2.22204995	-0.00881570
140.	6.81060028	-1.62500000	3.59259987	-1.27049996	-2.38809991	-0.01220070
145.	5.55159950	-1.15953255	3.89175010	-0.83840001	-2.52785015	-0.00845000
150.	4.12300014	-1.06640005	2.97380018	-0.96860003	-2.64055014	-0.01550000
155.	2.89529991	-0.86469990	0.09179997	-1.69639993	-2.64199996	-0.01040000
160.	1.96970010	-0.59780002	-0.57585001	-1.45750010	-2.60160017	-0.01210000
165.	1.23554993	-0.20865001	-0.03860000	-0.08915001	-2.52479982	-0.01000000
170.	0.70209992	-0.00345000	0.04060000	0.20475000	-2.44670010	-0.01045000
175.	0.23084991	0.03345000	0.00660000	0.13145000	-2.33050013	-0.00554420
180.	-0.04030000	-0.00515000	0.00250000	-0.07190000	-2.24084997	-0.00001620

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.55
PHI= 225.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.03055000	0.01110000	-0.01800000	-0.00165000	0.86339992	0.03590000
5.	0.41595000	0.33654979	-0.02835000	0.04475000	0.92474991	0.03250000
10.	0.84769988	1.06579995	-0.02660000	0.05380000	1.02090001	0.02960000
15.	1.34674990	2.08345008	0.00890000	-0.02175010	1.05844975	0.02920000
20.	1.85829997	3.25685024	0.12740000	-0.24445000	1.04470003	0.03300000
25.	2.45305014	4.60955000	0.26444998	-0.33944979	1.00675011	0.02865000
30.	3.12155032	6.04860020	0.36734998	-0.33909991	0.93320000	0.01380000
35.	3.88470006	7.55825043	0.41109991	-0.33837491	0.82512492	0.00530000
40.	4.68560028	9.00710011	0.21554990	-1.66994989	0.69389993	-0.00275000
45.	5.82630062	10.84319973	0.32080001	-2.15450001	0.53965002	-0.01015000
50.	7.10380030	12.69554996	0.15180001	-2.24350023	0.39385000	-0.01950000
55.	8.47084999	14.56755066	0.04929990	-2.21185017	0.26199991	-0.02675000
60.	9.48140049	15.75385094	0.04056100	-1.94099998	0.15295000	-0.02620000
65.	10.10729980	15.69470024	0.04914980	-1.68304992	0.01515000	-0.02515000
70.	10.60240078	15.09710121	0.09301640	-1.20504987	-0.05420000	-0.02255000
75.	10.79725075	13.98495007	0.08986671	-0.74384993	0.00680000	-0.02190000
80.	10.84765053	12.27250004	0.04264990	-0.29179999	0.17919990	-0.02420000
85.	10.76024914	10.23459911	0.09070370	-0.15815571	0.55100000	-0.02495000
90.	10.56475163	8.24385071	0.14196160	-0.03081851	0.56825000	-0.02600000
95.	10.37880039	6.06774998	0.14645000	-0.02522092	0.40125000	-0.02085000
100.	10.05765057	4.23675013	0.18999980	-0.09959531	0.10470000	-0.01390000
105.	9.81994915	2.73624992	-0.12314992	-0.02572680	-0.31334990	-0.00650000
110.	9.47154999	1.34465015	1.09110165	0.52799982	-0.89920002	-0.00300000
115.	9.14789963	0.20716742	2.82246995	1.84887254	-1.38424993	0.00065000
120.	8.70420074	-1.12335014	3.10545588	2.79087830	-1.73029995	-0.00730000
125.	8.05580044	-2.31822968	2.13579249	2.26769519	-1.96580005	-0.01380000
130.	7.09655046	-3.01883006	1.82793236	0.50726843	-2.15385008	-0.01335000
135.	6.06564999	-3.32261300	1.44308019	-0.69635016	-2.31389999	-0.01522200
140.	4.93620014	-2.89833999	0.43240002	-1.22780001	-2.46820021	-0.02600960
145.	4.05830002	-2.45972252	-0.18989989	-1.86290050	-2.61160016	-0.01825000
150.	3.25170016	-2.04420018	-0.82375002	-1.75835001	-2.66394997	-0.00825000
155.	2.42845011	-1.33644998	-0.61395001	-1.19939947	-2.64674997	-0.01015000
160.	1.62114990	-0.99714994	-0.04920000	-0.51304990	-2.60045004	-0.01115000
165.	1.02090001	-0.60000002	0.42290002	0.06890000	-2.52349997	-0.00885000
170.	0.53430003	-0.27375001	0.13375001	0.06140000	-2.44365001	-0.00715740
175.	0.23305000	-0.06105000	0.11840001	-0.03360000	-2.32240009	-0.00423450
180.	-0.05705000	-0.01200000	0.05590000	-0.04720000	-2.24140882	0.00000300

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.55
PHI= 270.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.02935000	0.00725000	-0.01690000	0.00410000	0.86089993	0.03535000
5.	0.41595000	0.31569999	-0.05680000	0.04475000	0.90979981	0.03230000
10.	0.83354998	0.95579988	-0.02970000	0.05380000	0.98479992	0.03020000
15.	1.29614997	1.80169988	0.02900000	-0.02175010	1.00999975	0.03100000
20.	1.82655001	2.86295009	0.12740000	-0.40549991	0.99264991	0.03320000
25.	2.44935012	4.11070013	0.23195000	-0.36489999	0.94190001	0.02810000
30.	3.15480018	5.51389980	0.23945001	-0.17989990	0.86905003	0.01850000
35.	3.91974998	6.97535038	0.27459991	-0.00830010	0.77649993	-0.00755000
40.	4.84230042	8.62160015	0.35085002	-1.66994989	0.63110000	-0.01120000
45.	5.91130018	10.30714989	0.42465001	-2.23010015	0.45234990	-0.00510000
50.	7.07395029	11.89800072	0.44795001	-2.14435005	0.31075001	-0.00230000
55.	8.33390045	13.48505020	0.43119991	-2.30320001	0.19309990	0.00040000
60.	9.32095051	14.46469975	0.36190000	-2.19849992	0.08355000	0.00320000
65.	9.85265064	14.38534927	0.24680001	-1.67779481	-0.02220000	-0.00545000
70.	10.14735031	13.69394970	0.09710000	-1.81430006	-0.06350000	-0.01375000
75.	10.28855038	12.37769985	-0.04115000	-1.55753970	0.01815000	-0.02215000
80.	10.18535042	10.00095177	-0.01345000	-1.37829602	0.17935000	-0.02890000
85.	10.01119995	8.26850033	-0.01934650	-1.11755347	0.64424992	-0.03720000
90.	9.92440033	6.91090012	-0.01878020	-0.81826061	0.86484993	-0.04560000
95.	9.83014965	5.49030018	-0.04238380	-0.53906965	0.70714992	-0.04300000
100.	9.66375065	4.10375023	-0.06861230	-0.20047840	0.35755000	-0.03885000
105.	9.52689934	2.88835001	-0.42692062	-0.03231260	-0.30634990	-0.03525000
110.	9.27745056	1.79025018	-0.12067120	0.49469772	-0.95220000	-0.03175000
115.	8.91939926	0.71058238	1.13861036	1.58942342	-1.39855003	-0.02845000
120.	8.25405121	-0.73311990	1.25365889	2.23292804	-1.74675000	-0.02640000
125.	7.24239969	-1.95778000	0.44279552	3.40119982	-2.01445007	-0.02390000
130.	6.21500063	-3.00554991	0.33804291	2.12754965	-2.20895004	-0.01610000
135.	5.15700006	-3.36038995	0.43654060	1.18914998	-2.35894990	-0.00780000
140.	4.29320002	-2.72702003	0.29985002	-0.94404978	-2.49455023	-0.00333570
145.	3.69815040	-2.19723248	0.19555001	-0.84844989	-2.61255026	0.00785620
150.	2.98055029	-1.85540009	0.12750001	-0.88674992	-2.68470025	0.01215000
155.	2.06760025	-1.29649973	0.23950000	-0.76760012	-2.67140007	0.00438530
160.	1.39499998	-0.92999995	0.15420000	-0.39574981	-2.60905004	0.00098110
165.	0.85030001	-0.50480002	0.43604991	0.04930000	-2.52045035	-0.00050780
170.	0.52445000	-0.22405000	0.12700000	0.14770000	-2.42175007	-0.00208680
175.	0.23774990	0.00225000	0.02715000	0.24850000	-2.32619667	-0.00208810
180.	0.04620000	0.01365000	-0.02415000	0.33794990	-2.24251032	0.00000110

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.55
PHI= 315.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.03055000	0.00980000	-0.01690000	0.01820000	0.86430001	0.03515000
5.	0.41595000	0.30914989	-0.05600000	0.04475000	0.91275001	0.03270000
10.	0.83794999	1.01665008	-0.03200000	0.02535000	0.99105000	0.03075000
15.	1.31519997	1.94585013	0.01470000	-0.02175010	1.00954986	0.03075000
20.	1.83480000	3.01625037	0.11605000	-0.29530001	0.98995000	0.03550000
25.	2.46590018	4.33395004	0.19690001	-0.36489999	0.94519991	0.02925000
30.	3.16635013	5.84439993	0.23559991	-0.15570000	0.86825001	0.01525000
35.	3.93544984	7.31040001	0.27944991	-0.60460001	0.76300001	0.00495000
40.	4.85735035	8.97185040	0.17804989	-1.57499969	0.62370002	-0.00200000
45.	5.92794991	10.62325001	-0.01795000	-1.70159984	0.48690000	-0.00605000
50.	7.11115074	12.24860001	-0.17539990	-1.08440018	0.35409990	-0.00770000
55.	8.36235046	13.85990047	-0.39279979	0.25439990	0.21924990	-0.01065000
60.	9.42039967	15.01205063	-0.60185003	1.06185007	0.11520000	-0.01820000
65.	10.06110001	15.69649982	-0.67319995	0.75245005	0.00600000	-0.02805000
70.	10.49590111	15.60564995	-0.67359990	0.55214989	-0.07375000	-0.04070000
75.	10.72809982	14.77669907	-0.64854997	0.37065262	-0.02184990	-0.05275000
80.	10.77070045	12.88175011	-0.66139990	0.15715481	0.21585000	-0.06450000
85.	10.78929996	10.57644939	-0.78130001	0.02428509	0.63180000	-0.07410000
90.	10.74760151	8.33069992	-0.86279988	-0.11286691	0.66315001	-0.08375000
95.	10.60785007	5.93054962	-1.01960039	-0.25583133	0.48034990	-0.07775000
100.	10.40820026	3.92789984	-1.20290506	-0.39065322	0.10845000	-0.06745000
105.	10.04124928	2.24995017	-1.60361898	-0.51117772	-0.39129990	-0.05610000
110.	9.54530144	0.87094748	-1.29920602	-0.24812490	-0.90869993	-0.04410000
115.	9.09064960	-0.06902501	-0.01111615	0.54979146	-1.32334995	-0.03395000
120.	8.47755051	-0.95470005	0.13160002	1.11839962	-1.64440000	-0.02430000
125.	7.62684965	-2.26677036	-0.80578023	0.79226220	-1.87185001	-0.01450000
130.	6.46825075	-2.90009975	-1.14189994	-0.49400002	-2.08150005	-0.00350000
135.	5.21904993	-3.37667012	-1.00036943	-0.51162851	-2.26069999	0.00615000
140.	4.40579987	-3.02746010	-0.98313886	-0.14360380	-2.41980004	0.0 985000
145.	3.60045028	-2.45793748	-0.88830018	-0.54110181	-2.57855034	0.02255000
150.	2.89135003	-1.71589903	-0.73922902	-0.71504980	-2.69039989	0.01390000
155.	2.19375014	-0.98934996	-0.56989992	-0.52572495	-2.67974997	0.0 955000
160.	1.50194991	-0.42614999	-0.20275000	-0.25739992	-2.60115027	0.00325000
165.	0.87690002	-0.04580000	0.24860001	0.16085000	-2.52400017	0.00275000
170.	0.53430003	0.05970000	0.17155001	0.06140000	-2.44815002	0.00230000
175.	0.21869990	0.05864990	0.11840001	-0.03465000	-2.33754992	-0.00040000
180.	-0.07790000	-0.02895000	0.05590000	-0.04720000	-2.24204993	0.00000520

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.55
PHI= 360.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.03055000	0.01185000	-0.02225000	0.00845000	0.86044991	0.03570000
5.	0.44595000	0.38124999	-0.04180000	0.09975000	0.93685001	0.03385000
10.	0.91564989	1.14815009	-0.00515000	0.12695000	1.02950001	0.03200000
15.	1.43419993	2.21090007	0.07240000	0.14324990	1.06165004	0.03250000
20.	1.98349988	3.40635014	0.13235000	-0.18549991	1.04215002	0.03520000
25.	2.63405013	4.71619940	0.03905000	-0.08990000	1.00115013	0.03050000
30.	3.39054990	6.59109974	-0.35129991	0.37889999	0.91490000	0.01930000
35.	4.39970016	8.75554943	-1.47025001	0.19255000	0.81180000	0.00775000
40.	5.50005007	11.01739979	-2.56464982	0.21121660	0.65555000	-0.00690000
45.	6.82715034	13.64470005	-4.36285019	0.25448331	0.50629991	-0.01975000
50.	8.25070095	16.39519882	-5.18952370	0.38630000	0.33315000	-0.02803750
55.	9.51620007	18.53636932	-5.09235048	0.46749967	0.15705000	-0.03287810
60.	10.66870022	19.76105118	-4.72644997	-1.17909992	-0.03740000	-0.03960000
65.	11.27615070	19.82744598	-4.74332905	-2.16536808	-0.19440000	-0.04271540
70.	11.53810120	19.02814865	-5.28007174	-5.62863350	-0.21790290	-0.04682890
75.	11.76544952	17.80775070	-5.36141062	-4.16658211	-0.23875190	-0.04995840
80.	11.93774796	16.11511993	-5.13392019	-2.89152932	-0.07636380	-0.05395230
85.	12.05195045	13.12314987	-4.98504496	-2.46298957	0.48910531	-0.05494650
90.	12.05195141	9.66395092	-4.74560499	-2.27602887	0.52973652	-0.05457510
95.	12.02854919	7.12655020	-4.65993500	-1.97220922	0.26970091	-0.05393920
100.	11.99775028	4.55800056	-4.31808567	-1.05259597	-0.10314550	-0.05507870
105.	11.96665096	2.71764994	-4.24003363	-0.01113141	-0.47367340	-0.04991120
110.	11.62395000	1.24739993	-4.37388182	2.94842839	-0.85473841	-0.04734060
115.	10.84445000	0.08745521	-3.82732105	3.90929961	-1.29532194	-0.03183940
120.	10.15125084	-0.83131009	-2.43202209	2.72311306	-1.60988402	-0.03152680
125.	9.27410030	-1.25104022	-1.66462111	1.07438195	-1.86929536	-0.03271580
130.	8.22589970	-1.18768990	-1.57379389	-1.06044996	-2.09307456	-0.02572520
135.	7.29605055	-1.12264991	-1.93041635	-0.48920000	-2.26347995	-0.02059920
140.	6.22449970	-0.92274004	-3.14490318	-1.35628307	-2.44391012	-0.01304120
145.	5.03079939	-0.74714506	-3.48602176	-1.33269477	-2.57939315	-0.01374400
150.	4.14820004	-0.96605003	-2.90567422	-1.27998078	-2.65323114	-0.00558170
155.	3.17864990	-0.84995002	-1.47560000	-1.42272139	-2.67232418	-0.00603400
160.	2.18365002	-0.56234992	-0.15561199	-0.94554985	-2.62547255	-0.00375730
165.	1.41589999	-0.19510001	0.00753330	0.06852011	-2.52486849	-0.00329670
170.	0.78160000	-0.00365000	-0.03930370	-0.02088550	-2.43606138	-0.00271300
175.	0.27825001	0.03730000	-0.00093000	-0.05733010	-2.31274533	-0.00258540
180.	-0.06935000	0.00610000	0.00820000	-0.00692000	-2.24049997	-0.00000700

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.60
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.01060000	0.00390000	-0.04360000	-0.02420000	0.86039990	0.04130000
5.	0.43289989	0.36229989	-0.04350000	0.13210000	0.94690001	0.03420000
10.	0.84169990	1.04220009	-0.02170000	0.21179999	1.04049993	0.02610000
15.	1.33119988	2.03059983	0.08770000	0.14639999	1.07030010	0.01660000
20.	1.88220000	3.24380016	0.13300000	-0.13809982	1.05100012	0.00560000
25.	2.54490018	4.75379944	-0.02580000	0.10710019	1.00430012	-0.00240000
30.	3.40329981	6.62619972	-0.20730002	0.57429999	0.89789993	-0.01050000
35.	4.41710043	8.84339905	-1.15859997	2.00409985	0.77980000	-0.01870000
40.	5.59119987	11.33349895	-2.10329986	2.81940007	0.60599983	-0.02510000
45.	7.01800060	14.31620026	-4.11399984	3.68389988	0.46309990	-0.02980000
50.	8.50360107	17.24859810	-5.24110031	4.72550011	0.28909990	-0.03567500
55.	10.20069981	20.26340103	-4.77969980	5.34379959	0.13470000	-0.03945620
60.	11.83710003	22.44070053	-3.79289985	2.50649977	-0.02460000	-0.04280000
65.	12.77220058	23.12860107	-3.70941281	2.10016100	-0.17879990	-0.04741150
70.	13.12610054	22.33489990	-4.66565275	-3.26017213	-0.16350590	-0.05158460
75.	13.21360016	20.56049919	-5.09416103	-2.20618010	-0.16319990	-0.05629470
80.	13.17749596	18.16953850	-4.98784018	-1.66192305	0.03397570	-0.05864400
85.	13.18520069	14.13399982	-5.00248146	-1.32339501	0.47400141	-0.05742980
90.	13.07380104	10.14750099	-4.83599329	-1.18487787	0.61767721	-0.05606750
95.	12.99209785	7.50320005	-4.75142241	-1.17709601	0.32041671	-0.05446720
100.	12.93549919	4.72200060	-4.14399958	0.03069115	-0.03907970	-0.05718990
105.	12.87420082	2.91649985	-4.04448509	0.18135985	-0.41211170	-0.04805[illegible]0
110.	12.32540035	1.37599993	-3.89497089	2.13159561	-0.81040081	-0.04486001
115.	11.13490009	0.04390031	-4.18974113	4.14103222	-1.27794[illegible]	-0.02107500
120.	10.27570057	-0.94500023	-4.59914398	-0.14017321	-1.68[illegible]	-0.02640000
125.	9.26849983	-1.38730001	-4.42354155	-0.38713658	-[illegible]139002	-0.03713160
130.	8.09959984	-1.36670017	-4.53926229	-0.77609992	-2.09607735	-0.02755040
135.	7.23710060	-1.27059972	-4.26201264	-0.[illegible]	-2.28[illegible]	-0.02040930
140.	6.07539988	-0.99390012	-3.67630053	-1.29[illegible]	-2.43[illegible]	-0.01171570
145.	5.02619934	-0.84230006	-2.56943973	-1.[illegible]	-2.[illegible]	-0.01250000
150.	4.17199993	-0.97160000	-2.41914021	-1.403052[illegible]	-[illegible]	-0.000[illegible]540
155.	3.15180016	-0.90730000	-1.[illegible]	-2.11[illegible]	-2.7[illegible]	-0.00[illegible]90
160.	2.13569999	-0.50630002	-0.95[illegible]	-1.39[illegible]	-2.65920025	-0.00369040
165.	1.32519972	-0.15240000	-0.[illegible]	-0.[illegible]	-2.55605949	-0.[illegible]
170.	0.85060000	0.06260000	-0.039[illegible]	-0.[illegible]	-2.46000925	-3.[illegible]
175.	0.47479990	0.07[illegible]	-0.[illegible]	0.[illegible]	-2.35749054	-0.00[illegible]
180.	0.10060000	0.04[illegible]	0.[illegible]	-0.[illegible]	-2.27619962	-0.00[illegible]

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.60
PHI= 45.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.01060000	0.00520000	-0.04360000	-0.02420000	0.86019993	0.04490000
5.	0.40289989	0.36089979	-0.10100000	-0.00040000	0.93799990	0.05020000
10.	0.78169990	1.01760006	-0.13670000	-0.05320000	0.99769992	0.03600000
15.	1.24119997	1.90240018	-0.08480000	-0.25110000	1.01220012	-0.00200000
20.	1.79589999	3.16500020	-0.03600010	-0.44770002	0.99589992	-0.02340000
25.	2.45040011	4.62660027	0.16869979	-0.55539984	0.95809990	-0.04970000
30.	3.22329998	6.24270010	0.39669994	-0.39930001	0.89339978	-0.07669999
35.	4.20710039	8.08380032	0.40459976	-0.42680001	0.78149992	-0.10309990
40.	5.34200001	10.15180111	-0.05200002	-0.43760002	0.64869992	-0.12960000
45.	6.57860003	12.18639946	-0.62979990	-0.28760001	0.52300000	-0.15809999
50.	7.82709980	14.11479855	-2.96080041	-0.07910001	0.39469990	-0.18670000
55.	8.94010067	15.55590057	-2.37419987	0.31739977	0.30039990	-0.22610000
60.	9.97130013	16.72190094	-1.67414808	0.84319997	0.18507570	-0.25014549
65.	10.80189896	16.75889969	-1.17710340	1.61629987	0.08951210	-0.26824841
70.	11.19570065	15.82570076	-0.71060002	2.23959994	-0.00615790	-0.28850392
75.	11.22570038	13.54019928	-0.32236010	1.19135129	0.02500790	-0.31166750
80.	11.11540031	11.51399994	0.02914947	0.07105660	0.14232470	-0.33006201
85.	11.15749931	9.19745922	0.19302237	-0.86977422	0.47965550	-0.34018001
90.	11.12160015	7.43090057	0.37705964	-0.65300000	0.69403982	-0.33938849
95.	11.04480076	5.56640005	0.53716892	0.47207534	0.42713591	-0.33377871
100.	10.89669991	3.73079967	0.57480001	1.45794141	0.04409090	-0.32345331
105.	10.54730034	1.89999986	0.67471278	2.70880008	-0.44236931	-0.30568922
110.	10.05730057	0.14479983	0.63686907	3.48495030	-0.83791173	-0.28051442
115.	9.44519997	-1.54309988	0.44359982	3.21838593	-1.17246056	-0.24310599
120.	8.60589981	-2.37090015	-0.85775143	2.31451178	-1.50023055	-0.22610000
125.	7.83280087	-2.85310006	-1.52578151	1.72559273	-1.77813005	-0.18902999
130.	6.94920063	-3.24149990	-1.03474319	1.72210479	-2.00948906	-0.15899600
135.	5.97469997	-3.27250004	-0.13225597	1.89440012	-2.22181845	-0.12713470
140.	5.09049988	-3.02919984	0.18181807	0.99805641	-2.42708874	-0.10615001
145.	4.16359997	-2.55909991	0.27957082	1.60019410	-2.63883257	-0.08244950
150.	3.29380035	-2.12019992	0.11904010	1.83080077	-2.73133469	-0.05962400
155.	2.46869993	-1.59260011	-0.13595131	1.38747811	-2.72327185	-0.03899600
160.	1.69889987	-1.09949994	-0.60550845	-0.18222700	-2.65196705	-0.01798400
165.	1.02659965	-0.60399991	-0.23200021	-0.44530001	-2.56642103	-0.01146760
170.	0.54960001	-0.24590001	0.03297900	-0.27149999	-2.48328447	-0.00751930
175.	0.20909990	-0.02820000	-0.09542000	-0.06324000	-2.35760021	-0.00294000
180.	-0.08149990	-0.03000000	0.01472000	-0.01520000	-2.26910019	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.60
PHI= 90.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.01170000	0.00570000	-0.03290000	-0.02420000	0.86889982	0.04110000
5.	0.40289989	0.33249989	-0.06460000	0.03740000	0.93640000	0.03045000
10.	0.78169990	0.98729962	-0.04280000	0.00680000	1.00580001	0.01230000
15.	1.24119997	1.91770005	0.01590000	-0.16110000	1.02309990	0.01505000
20.	1.79589999	3.02410030	0.05790000	-0.37260002	1.00399995	0.00280000
25.	2.45040011	4.30590002	0.09040000	-0.60539980	0.95829982	-0.00645000
30.	3.18710017	5.91979980	0.11950000	-0.84070000	0.88720000	-0.00530000
35.	4.03640032	7.53860092	0.14620000	0.44055191	0.78149992	-0.00365000
40.	4.95690060	9.18499947	0.17300001	0.67779988	0.60350001	-0.00407000
45.	6.00550032	10.81340027	0.14410000	0.79666960	0.45929980	-0.00477790
50.	7.17199993	12.54069996	0.09510000	0.78040731	0.33669990	-0.00599180
55.	8.47000027	14.31919956	0.00196060	0.50727403	0.19520000	-0.00786770
60.	9.91510010	16.06580162	-0.10382130	0.21385619	0.09829990	-0.01006670
65.	11.25749969	16.02169914	-0.23893560	-0.27955741	0.01160000	-0.01346570
70.	11.63599586	15.90259838	-0.46220720	-0.65895748	-0.02423810	-0.01034760
75.	11.68719959	13.21740055	-0.64513850	-0.75957012	-0.02242540	-0.00939560
80.	11.46529961	10.51400089	-1.07931399	-0.96719980	0.13238950	-0.01470240
85.	11.38969994	8.43009949	-0.91291088	-1.15979779	0.28505290	-0.01573100
90.	11.23000050	6.98499966	-0.78433090	-0.99760002	0.62009752	-0.01412730
95.	11.07310009	5.12279987	-0.87048376	-0.72900099	0.51385760	-0.01483480
100.	10.99209881	3.59269953	-0.45449451	-0.33200270	0.16163780	-0.01558570
105.	10.81879997	1.82140028	0.05216330	-0.15598190	-0.33752760	-0.00381690
110.	10.32369804	0.00849999	-0.14976370	-0.21419999	-0.81336331	-0.01116440
115.	9.86769867	-1.52129972	-0.10688049	-1.14543962	-1.18426061	-0.01744200
120.	8.68709946	-2.82000030	-0.51750010	-1.84660017	-1.53581154	-0.02948600
125.	6.77069950	-3.58290005	-1.49968374	-0.92957687	-1.82684505	-0.03702880
130.	5.17640018	-3.95959997	-1.25340021	-0.77309996	-2.09569979	-0.03450000
135.	4.71000004	-4.14000034	-1.47300005	0.15500002	-2.25990009	-0.01678150
140.	4.31410027	-3.59310031	-0.70891780	0.39557612	-2.44501638	-0.01258140
145.	3.71700025	-2.91050005	-0.17379990	0.46628770	-2.59368610	-0.01177200
150.	3.33850026	-2.46959972	-0.29621351	0.06084910	-2.71240664	-0.01134400
155.	2.85380030	-1.80699992	-0.46621981	0.31295750	-2.72957230	-0.00802400
160.	1.90590000	-1.28289998	-0.57525790	-0.21407220	-2.66555691	-0.00536790
165.	1.04429984	-0.62720001	-0.11575910	-0.33999991	-2.57718396	-0.00353070
170.	0.56180000	-0.25479990	0.05915790	-0.15528581	-2.49579382	-0.00330000
175.	0.18500000	0.00450000	0.02420000	-0.01530000	-2.36074018	-0.00037630
180.	-0.05500000	-0.92090000	0.00670000	0.00624000	-2.27199984	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.60
PHI= 135.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.01170000	0.00530000	-0.04360000	-0.02420000	0.84809983	0.04250000
5.	0.40209989	0.33269989	-0.02600000	0.09240000	0.88919991	0.04635000
10.	0.78169990	0.98740000	0.00780001	0.11680000	0.97529978	0.04939990
15.	1.24119997	1.88669980	0.10320000	0.00390000	0.99339992	-0.00995000
20.	1.76220000	3.03860021	0.26399991	-0.15260001	0.97669983	-0.02300000
25.	2.45040011	4.53279972	0.48249993	-0.13039979	0.94630003	-0.02305000
30.	3.23090029	6.15459967	0.69689989	0.28929999	0.88900000	-0.01740000
35.	4.20710039	8.03060055	0.91130006	2.03990006	0.78149992	0.01745000
40.	5.29080009	10.02209949	1.73700011	1.12590003	0.63510001	0.04379990
45.	6.45309973	11.80780029	2.39760017	0.55819988	0.50279993	0.07125000
50.	7.67420006	13.50340080	2.66989994	0.09090000	0.36829990	0.10379990
55.	9.11399937	15.28440094	2.25380015	-0.70399988	0.23379990	0.12345000
60.	10.25600052	17.19649887	1.25769997	-1.42579997	0.10780000	0.14839990
65.	10.78859901	17.55089951	0.36490002	-2.57390022	-0.02760000	0.16974990
70.	11.17739964	17.34469795	-0.36139989	-3.01590014	-0.09190000	0.18830000
75.	11.30160046	15.97819901	-1.05624294	-3.25904584	-0.01600000	0.20125000
80.	11.31610107	13.71980095	-1.25919998	-3.28610015	0.24039990	0.21200000
85.	11.40309906	11.23379993	-1.43981719	-3.22849393	0.45800000	0.21434990
90.	11.46160030	8.19900036	-1.54259992	-3.04171252	0.57999992	0.20440000
95.	11.43809986	5.96410084	-1.34180044	-2.81923628	0.42109990	0.19605000
100.	11.15100098	4.05640030	-0.77710235	-2.63677788	0.09430000	0.19120000
105.	10.90369892	2.46130013	-0.51400721	-2.37324595	-0.29750001	0.18810001
110.	10.41209984	0.79039997	-0.15878618	-2.34331346	-0.83019990	0.17770001
115.	9.71100044	-0.75119990	0.37985322	-2.17066598	-1.23099995	0.16760001
120.	8.67549896	-2.09870005	0.85019994	-1.61479998	-1.52320004	0.14770001
125.	7.74800014	-2.79269981	2.19740009	-1.78511298	-1.76200020	0.13660000
130.	6.95130062	-3.35019970	2.83040023	-1.17606139	-2.01210022	0.12639990
135.	6.22719955	-3.46660018	1.98569977	-0.38877481	-2.26100016	0.11250000
140.	5.46360064	-3.30350018	1.39689982	0.80339992	-2.52190018	0.08310000
145.	4.58510017	-2.28869987	0.06900001	1.13299990	-2.67230010	0.07190000
150.	3.78080010	-1.66059983	-1.49819982	-0.53460002	-2.74729991	0.04880000
155.	2.84019995	-0.76059991	-1.35670006	-2.08280015	-2.73190022	0.02690000
160.	1.92799997	-0.25680000	-0.08080000	-0.70829993	-2.66029978	0.00720000
165.	1.13240004	0.04160000	0.38189992	0.35470000	-2.55639982	-0.00890000
170.	0.54960001	0.11450000	0.03080000	0.22849999	-2.47879982	-0.00876930
175.	0.23649991	0.09280000	0.16750000	-0.00400000	-2.38450003	-0.00349990
180.	-0.08149990	-0.04990000	0.05540000	-0.07080000	-2.27966547	-0.00620000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.60
PHI= 180.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.01170000	0.00500000	-0.01540000	-0.00920000	0.86039990	0.04620000
5.	0.49759999	0.39150000	-0.08350001	-0.04790000	0.88919991	0.03400000
10.	0.97589976	1.09670233	-0.10170000	-0.14819999	0.97529978	0.02270000
15.	1.53509998	2.27720022	-0.03230000	-0.39359999	0.99339992	0.01130000
20.	2.16160011	3.70060015	0.03399990	-0.63770002	0.96630001	-0.00060000
25.	3.03150010	5.66629982	0.23639992	-0.79289979	0.91299993	-0.01870000
30.	4.07739973	7.91940069	0.48979992	-0.50569999	0.83749992	-0.01710000
35.	5.30180025	10.55759907	0.82749993	0.42329991	0.74430001	-0.01710000
40.	6.55249977	13.28939915	1.26859999	0.86590003	0.60399991	-0.02090000
45.	7.99470043	16.21850014	2.17960000	-0.63430005	0.45969990	-0.03020000
50.	9.50410000	19.16900063	3.05129981	-1.23409998	0.30289990	-0.04310000
55.	10.85210037	21.36339951	3.75849986	-2.19789982	0.13550000	-0.05660000
60.	12.07490158	22.67269897	4.24960041	-2.35430002	-0.02190000	-0.06790000
65.	12.72740173	22.97010231	4.53902483	-1.87019992	-0.25529990	-0.08460000
70.	12.97490120	22.87729721	4.61920023	-1.72950006	-0.31690001	-0.10090000
75.	12.90259933	20.23270226	4.48981762	-1.60739827	-0.09209990	-0.11510000
80.	12.80919933	17.44970322	4.15796423	-1.50920498	0.17170000	-0.12569999
85.	12.86160088	13.63329983	3.89660749	-1.42908072	0.44909990	-0.13490000
90.	12.80369949	10.32740021	3.95098186	-1.38320005	0.52620000	-0.13900000
95.	12.63700104	7.54010010	3.94703984	-1.19776165	0.27520001	-0.13149999
100.	12.42520046	5.24640036	3.98463964	-1.19494784	0.01570000	-0.11990000
105.	12.35380173	3.28869987	4.00832939	-0.27744997	-0.32679990	-0.10200001
110.	12.05370045	1.72309983	4.02120018	-0.57340002	-0.80739993	-0.07790000
115.	11.34250069	0.07700011	4.35946178	-2.41469359	-1.18090010	-0.06320000
120.	10.71229935	-1.32770002	4.55946970	-0.09636098	-1.46749985	-0.05000000
125.	10.03800011	-2.15939975	4.75520134	-0.24070871	-1.75160003	-0.03530000
130.	9.29570007	-2.28920007	4.88849306	-0.22658491	-1.99070013	-0.02420000
135.	8.36209965	-2.27279997	4.61810017	-0.31130004	-2.19000006	-0.00680000
140.	7.08380032	-1.78329992	3.66599989	-0.56770009	-2.37500000	-0.01100000
145.	5.52769947	-1.37129998	2.81589985	-0.87120003	-2.54690003	-0.00190000
150.	3.91360021	-0.91139990	2.49249983	-0.98329985	-2.66100001	0.00440000
155.	2.58310008	-0.72759980	1.10610008	-0.68359989	-2.66559982	-0.00120000
160.	1.75369990	-0.51550001	-0.28739992	-0.73220003	-2.62480021	-0.00290000
165.	1.06579983	-0.11430001	-0.19200000	0.05470000	-2.55849981	-0.00070000
170.	0.66649991	0.06540000	0.07799990	0.20980000	-2.48320007	-0.00530000
175.	0.26599991	0.07170000	0.00610000	0.03740000	-2.38990021	-0.00301610
180.	0.00150000	0.00000000	0.01640000	-0.17399991	-2.27920008	-0.00000510

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.60
PHI= 225.

ALPHA	CN	CM	CY	CYM	CA	C^D
0.	0.01060000	0.00550000	-0.03510000	-0.06389990	0.86080003	0.04170000
5.	0.40289989	0.37389979	-0.05850000	0.05460000	0.91320002	0.03265000
10.	0.78169990	1.03769994	-0.05170000	0.05680000	1.01099992	0.02360000
15.	1.24119997	1.96549988	0.00570000	-0.00610000	1.04069996	0.01315000
20.	1.79589999	3.18500018	0.13399990	-0.27260000	1.02250004	0.00100000
25.	2.45040011	4.68289995	0.34440002	-0.28039980	0.97869992	-0.01615000
30.	3.18710017	6.18330002	0.62199998	0.10930000	0.89080000	-0.01400000
35.	4.09740019	8.01430035	0.70209980	1.02989991	0.78149992	-0.01345000
40.	5.05920029	9.78770065	0.30359989	0.88590002	0.62589991	-0.01200000
45.	6.38160038	12.04479980	-0.23230000	0.28819990	0.46550000	-0.01055000
50.	7.68160057	14.04929924	-0.54099989	-0.20910001	0.31819990	-0.01110000
55.	9.41109943	16.72010231	-0.46319991	-0.95549995	0.20559990	-0.01185000
60.	10.76490021	18.50940132	-0.25617790	-1.37349987	0.13789991	-0.01260000
65.	11.54640007	18.40789986	-0.10780030	-1.46969998	0.05120000	-0.01395000
70.	12.13079967	17.52950096	0.03853300	-1.11030006	0.02230000	-0.01780000
75.	12.25050163	15.62170029	0.12753351	-0.66569990	0.09140000	-0.02155000
80.	12.10130119	13.07789993	0.20799990	-0.03060000	0.28600001	-0.02530000
85.	11.78879833	10.80979919	0.26530740	0.13058852	0.59069991	-0.02385000
90.	11.42170048	8.82660103	0.28691320	0.06136321	0.64429992	-0.02200000
95.	11.12579918	6.62520027	0.21520010	-0.16564171	0.47880000	-0.01315000
100.	10.65130043	4.88819981	0.15719971	-0.32028520	0.17910001	-0.00270000
105.	10.31489944	3.21229982	-0.02119980	-0.59745413	-0.26239991	0.00840000
110.	9.83710003	1.65870011	-0.05120000	-0.53000087	-0.82290000	0.01910000
115.	9.31990051	0.32719991	0.41987202	0.37945491	-1.34739995	0.02630000
120.	8.63710022	-1.13210011	0.81411201	1.11095750	-1.68079984	0.01060000
125.	7.83029938	-2.39459968	1.03470278	0.20909095	-1.93149996	-0.00290000
130.	6.86499977	-3.12030005	0.36326471	-1.27036297	-2.15460014	-0.00510000
135.	5.83310032	-3.40962553	0.22556061	-1.81500030	-2.32620001	-0.01000000
140.	4.69799995	-2.90000010	-0.01419991	-1.80999994	-2.49280024	-0.03060000
145.	4.01679993	-2.36490011	-0.12979990	-1.89700055	-2.64010024	-0.01760000
150.	3.36450028	-1.73510027	-0.25529999	-1.26199985	-2.70149970	-0.00120000
155.	2.55910015	-1.15399992	-0.43340001	-1.22699904	-2.67950010	-0.00030000
160.	1.81280005	-0.96430004	-0.22579980	-0.50000000	-2.62580013	-0.00110000
165.	1.12310004	-0.59189981	0.13100000	0.05470000	-2.55800009	0.00140000
170.	0.54960001	-0.23580000	0.03080000	0.07850000	-2.47760010	-0.00040000
175.	0.23649991	-0.03770000	0.06750000	-0.05400000	-2.37370014	-0.00060240
180.	-0.08149990	-0.03000000	0.05540000	-0.07080000	-2.27961779	0.00000600

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.60
PHI= 270.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.01060000	0.00450000	-0.03290000	-0.00770000	0.86089993	0.04070000
5.	0.40289989	0.33769989	-0.05850000	0.05460000	0.91310000	0.03270000
10.	0.78169990	0.89669991	-0.04080000	0.05600000	1.00950003	0.02470000
15.	1.24119997	1.72630000	0.04590000	-0.00610000	1.03789985	0.01510000
20.	1.79589999	2.90910006	0.13399990	-0.04009979	1.01929975	0.00360000
25.	2.45040011	4.29210043	0.27940002	-0.20039980	0.97359991	-0.00470000
30.	3.20760012	5.87559986	0.36620000	0.10930000	0.88950002	-0.00930000
35.	4.05480051	7.57240057	0.42779991	1.02989991	0.78149992	-0.00790000
40.	5.06700039	9.32200050	0.48459989	0.00590002	0.58889991	-0.00570000
45.	6.18429995	11.13109970	0.52549982	0.13699999	0.35839990	-0.00350000
50.	7.47420025	12.87480068	0.45579991	-0.53079993	0.21959990	-0.00420000
55.	9.07330009	14.93070030	0.35820001	-1.49899960	0.14719990	-0.00520000
60.	10.56830025	16.58469963	0.24689990	-2.34079981	0.09119990	-0.00630000
65.	11.40850067	16.75959969	0.17090000	-1.64079999	0.01300000	-0.01320000
70.	11.89390087	16.28299904	0.09830000	-1.35780001	-0.03860000	-0.02270000
75.	12.09510040	15.04469967	0.05460000	-1.01787972	-0.00050000	-0.03190000
80.	11.79910088	11.71210194	0.10410000	-0.81989187	0.15820000	-0.03760000
85.	11.39039993	9.50900078	0.11450000	-0.67240715	0.53289992	-0.04490000
90.	11.15639973	7.96830034	0.13960001	-0.53372139	0.71819991	-0.05230000
95.	10.95629978	6.57280016	0.15451060	-0.38443932	0.60839993	-0.04980000
100.	10.62190056	5.14760017	0.16417141	-0.26139992	0.30479991	-0.04590000
105.	10.33959961	3.91019964	0.09465610	-0.24370430	-0.31840000	-0.04270000
110.	9.98490047	2.60000014	0.15185790	-0.01400471	-0.91149992	-0.03970000
115.	9.48419952	0.96020007	0.72742093	1.01721859	-1.33870006	-0.03680000
120.	8.55330086	-0.75779980	1.21451783	1.89600015	-1.70589995	-0.03560000
125.	7.24709988	-2.10030007	1.55639124	1.15429997	-1.98650002	-0.03170000
130.	6.07120085	-3.23379993	1.01048565	-0.36989990	-2.20510006	-0.01850000
135.	5.11270046	-3.60730004	0.97620129	-0.99790001	-2.35519981	-0.00430000
140.	4.36450005	-2.86640000	0.52169991	-0.99189991	-2.48190022	0.00270000
145.	4.00129986	-2.37049985	0.07610000	-0.83510000	-2.61390042	0.02330000
150.	3.30520010	-1.86050010	0.05260000	-0.24509990	-2.68349981	0.03320000
155.	2.28060007	-1.32519972	0.22250001	-0.37480000	-2.68540001	0.02120000
160.	1.59200001	-1.00719988	0.41839990	0.01100010	-2.63470006	0.01340000
165.	1.00179994	-0.57709992	0.15730000	0.01550000	-2.55070043	0.00770000
170.	0.60000002	-0.25000000	0.05610000	0.21409990	-2.45090008	0.00150000
175.	0.25470001	0.03430000	-0.00940000	0.22600000	-2.35669994	-0.00143420
180.	0.05580000	0.02460000	-0.02480000	0.32089990	-2.28022051	0.00000220

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.60
PHI= 315.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.01060000	0.00470000	-0.03290000	-0.02420000	0.86159992	0.04080000
5.	0.40289989	0.28059989	-0.05850000	0.05460000	0.91289991	0.03250000
10.	0.78169990	0.91679990	-0.04540000	-0.00010000	1.00790000	0.02460000
15.	1.24119997	1.83790016	0.01730000	-0.00610000	1.03909993	0.01460000
20.	1.76220000	2.94570017	0.11130001	-0.22770001	1.01779985	0.00340000
25.	2.45040011	4.40150023	0.20930001	-0.28039980	0.97319990	-0.00240000
30.	3.22329998	6.10879993	0.35849991	0.10930000	0.89230001	-0.01560000
35.	4.08620024	7.78550005	0.48659989	0.63729990	0.78149992	-0.02080000
40.	5.11040020	9.72380066	0.32759979	1.04809980	0.60200000	-0.02510000
45.	6.38800001	11.73470020	0.00110000	1.19099998	0.45919991	-0.02600000
50.	7.78400087	13.79410076	-0.23020001	1.33389986	0.33980000	-0.03070000
55.	9.21110058	15.61690044	-0.56039989	1.39499986	0.23449990	-0.03320000
60.	10.61339951	17.18710136	-0.89980000	1.42999983	0.15160000	-0.03540000
65.	11.41880035	17.91979790	-0.91299993	1.40550017	0.06569990	-0.04160000
70.	11.96060181	18.02419853	-0.79549992	1.34299970	0.00440000	-0.04960000
75.	12.13379955	16.99769974	-0.66350001	1.23950005	0.06530000	-0.05760000
80.	12.04100037	14.52799988	-0.46680003	1.07199991	0.30010000	-0.06560000
85.	11.96479988	11.97649860	-0.38259989	0.93580395	0.65359992	-0.07080000
90.	11.84130096	9.41139984	-0.22160000	0.78499985	0.74489993	-0.07690000
95.	11.65510082	6.75819969	-0.01680000	0.59402108	0.54579991	-0.07040000
100.	11.34900093	4.63219976	0.13499080	0.41800001	0.20299990	-0.06010000
105.	10.73169899	3.00540018	0.13876320	-0.09374021	-0.31540000	-0.04800000
110.	9.88390160	1.50709534	0.26330370	-0.43581530	-0.84359992	-0.03670000
115.	9.26300049	0.14900002	0.89172143	0.01480067	-1.27629995	-0.02900000
120.	8.37030029	-0.94110006	1.42319989	0.75679970	-1.58909965	-0.02290000
125.	7.35569954	-2.34600019	1.54643941	0.38852406	-1.84019983	-0.01470000
130.	6.21850061	-2.98839974	0.57219982	-0.45000002	-2.07100010	-0.00430000
135.	4.99409962	-3.46560001	0.58699989	-0.25798431	-2.26459980	0.00710000
140.	4.40719986	-3.04870009	0.40320000	0.60270000	-2.42780018	0.02060000
145.	3.86730051	-2.55760002	-0.01660000	-0.27440000	-2.59450030	0.03340000
150.	3.26909995	-1.84229982	-0.14499991	-0.40439981	-2.70979977	0.04320000
155.	2.56300020	-1.00769985	-0.35899999	-1.23359990	-2.69859982	0.03480000
160.	1.74600005	-0.41180000	-0.38389993	-0.90479994	-2.62780023	0.01960000
165.	0.96060002	-0.02350000	-0.21759990	0.05470000	-2.55390000	0.01210000
170.	0.54960001	0.00759990	0.03080000	0.07850000	-2.47760010	0.00740000
175.	0.23649991	0.07539990	0.06750000	-0.05610000	-2.38730001	0.00140000
180.	-0.08149990	-0.03700000	0.05540000	-0.07080000	-2.27950001	0.00002110

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.60
PHI= 360.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.01060000	0.00390000	-0.04360000	-0.02420000	0.86039990	0.04130000
5.	0.43289989	0.36229989	-0.04350000	0.13210000	0.94690001	0.03420000
10.	0.84169990	1.04220009	-0.02170000	0.21179999	1.04049993	0.02610000
15.	1.33119988	2.03059983	0.08770000	0.14639999	1.07030010	0.01660000
20.	1.88220000	3.24380016	0.13300000	-0.13809982	1.05100012	0.00560000
25.	2.54490018	4.75379944	-0.02580000	0.10710019	1.00430012	-0.00240000
30.	3.40329981	6.62619972	-0.20730002	0.57429999	0.89789993	-0.01050000
35.	4.41710043	8.84339905	-1.15859997	2.00409985	0.77980000	-0.01870000
40.	5.59119987	11.33349895	-2.10329986	2.81940007	0.60599983	-0.02510000
45.	7.01800060	14.31620026	-4.11399984	3.68389988	0.46309990	-0.02980000
50.	8.50360107	17.24859810	-5.24110031	4.72550011	0.28989998	-0.03567500
55.	10.20069981	20.26340103	-4.77969980	5.34379959	0.13470000	-0.03945620
60.	11.83710003	22.44070053	-3.79289985	2.50649977	-0.02460000	-0.04280000
65.	12.77220058	23.12860107	-3.70941281	2.10016108	-0.17879990	-0.04741150
70.	13.12610054	22.33489990	-4.66565275	-3.26017213	-0.16350590	-0.05158460
75.	13.21360016	20.56049919	-5.09416103	-2.20618010	-0.16319990	-0.05629470
80.	13.17749596	18.16953850	-4.98784018	-1.66192305	0.03397570	-0.05864400
85.	13.18520069	14.13399982	-5.00248146	-1.32339501	0.47400141	-0.05742980
90.	13.07380104	10.14750099	-4.83599329	-1.18487787	0.61767721	-0.05606750
95.	12.99209785	7.50320005	-4.75142241	-1.17709601	0.32841671	-0.05446720
100.	12.93549919	4.72200060	-4.14399958	0.03069115	-0.03907970	-0.05718990
105.	12.87420082	2.91649985	-4.04448509	0.18135905	-0.41211170	-0.04800400
110.	12.32540035	1.37599993	-3.89437089	2.13159561	-0.81040001	-0.04486000
115.	11.13490009	0.04390031	-4.18974113	4.14103222	-1.27794385	-0.02107600
120.	10.27570057	-0.94500023	-4.59914398	-0.14817321	-1.60596800	-0.02688000
125.	9.28849983	-1.38730001	-4.42354155	-0.38713658	-1.87139082	-0.03713160
130.	8.69959984	-1.36670017	-4.53926229	-0.77609992	-2.08687735	-0.02755040
135.	7.23710060	-1.27059972	-4.26283264	-0.83899999	-2.28111792	-0.02048930
140.	6.07539988	-0.99390012	-3.67630053	-1.25190020	-2.46728516	-0.01171570
145.	5.02619934	-0.84230006	-2.56949973	-1.24598074	-2.60775566	-0.01558000
150.	4.17199993	-0.97160000	-2.41914821	-1.40385211	-2.67197609	-0.00091540
155.	3.15180016	-0.90730000	-1.80670011	-2.11426020	-2.70101452	-0.00435190
160.	2.13569999	-0.58630002	-0.95869994	-1.38150001	-2.65820026	-0.00369000
165.	1.32519972	-0.15240000	-0.20649990	-0.24143901	-2.55685949	-0.00283070
170.	0.85060000	0.06260000	-0.03971480	-0.01427100	-2.46889925	-0.00243440
175.	0.47479990	0.07860000	-0.00620000	0.05129990	-2.35749054	-0.00191090
180.	0.10860000	0.04860000	0.00800000	-0.00288000	-2.27619982	-0.00000450

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.70
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.01060000	0.00170000	-0.04360000	-0.02420000	0.87290001	0.04980000
5.	0.43879980	0.34959990	-0.04100000	0.08990000	0.92129987	0.03800000
10.	1.06559992	1.31919992	-0.01670000	0.11180000	1.01650000	0.02730000
15.	1.92779994	2.95370007	0.05820000	-0.00360000	1.04259992	0.01660000
20.	2.76480031	4.71049976	0.18130001	-0.11770001	1.02370000	0.00560000
25.	3.93810010	7.33699989	0.29089990	-0.14289980	0.98629981	-0.00240000
30.	5.12510014	9.98819923	0.09849999	0.27430001	0.91279978	-0.01060000
35.	6.40340042	12.71489906	-0.40459988	1.65409982	0.78149992	-0.01800000
40.	8.16539955	16.11349869	-1.05839980	2.69169974	0.59149992	-0.02590000
45.	10.44839954	20.49069977	-1.86710012	3.44979978	0.35839990	-0.03547610
50.	12.77039909	24.65319824	-2.98050046	3.40000033	0.17250000	-0.04400000
55.	14.56930065	27.50090027	-3.57640028	2.46700001	0.07010000	-0.05319860
60.	15.82629967	29.77659988	-3.80971055	2.03122520	-0.04200070	-0.06156150
65.	16.47890091	30.49950027	-2.97269106	0.62247658	-0.10770340	-0.06413841
70.	16.74359894	28.93709755	-3.46351790	-0.21533012	-0.09714200	-0.06644400
75.	16.79959869	26.15110016	-3.81507945	-0.88033503	0.08283170	-0.07403600
80.	16.76679993	22.60630035	-3.88516212	-1.58665407	0.21154781	-0.08056000
85.	16.65890121	17.72963715	-3.78140044	-1.90705001	0.47149980	-0.07919990
90.	16.35440063	13.78059864	-3.65701365	-1.99035299	0.80735350	-0.07537761
95.	15.90379906	9.76439953	-3.58332229	-1.70976901	0.46436420	-0.07430001
100.	15.30880070	6.14160013	-3.34199977	-1.07732797	0.08447050	-0.07591640
105.	14.52780056	3.19300008	-3.51666355	-0.20924020	-0.29983920	-0.06808000
110.	13.61810017	0.92663640	-2.86637425	1.43289638	-0.82417840	-0.05215480
115.	12.65940094	-1.00680006	-2.55845594	2.19120526	-1.25174284	-0.04112800
120.	11.54560089	-2.53030014	-3.00051999	0.47515321	-1.58365583	-0.03763200
125.	10.30400085	-3.20999980	-3.34925961	-0.89520335	-1.87909985	-0.04046750
130.	8.93080044	-2.99790025	-3.62741375	-1.13462575	-2.12202072	-0.03467640
135.	7.32029963	-2.22800016	-3.46599960	-0.41109431	-2.33909988	-0.03011520
140.	5.79399967	-1.24559987	-3.37200022	-0.52308571	-2.53650022	-0.01790000
145.	4.53069973	-0.49619991	-3.06950092	-0.81955338	-2.69903612	-0.01484400
150.	3.52089977	-0.49350002	-2.22304201	-0.36392412	-2.75410843	-0.00197200
155.	2.61890006	-0.24630000	-0.75759995	-0.53031892	-2.78732014	-0.00554390
160.	1.96259999	-0.00840011	0.40259570	-0.92119968	-2.72694445	-0.00174970
165.	1.67299986	0.24079999	0.14068751	-0.00088492	-2.62874675	-0.00207180
170.	1.17249990	0.54610002	-0.04704250	-0.02495490	-2.53871822	-0.00193600
175.	0.69709992	0.46990001	-0.00240000	-0.06002010	-2.42330027	-0.00149600
180.	0.22880000	0.24399990	0.00320000	0.00845990	-2.34980583	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.70
PHI= 45.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.01060000	0.00170000	-0.04360000	-0.02420000	0.87529987	0.05010000
5.	0.40289989	0.20829999	-0.11850000	0.09960000	0.92839992	0.07590000
10.	0.93919998	1.01820016	-0.16080000	0.14680000	1.02969992	0.04730000
15.	1.73690009	2.41380000	-0.13730001	0.04890000	1.05859983	-0.00200000
20.	2.55840039	4.13639975	-0.10600010	-0.04770002	1.03839993	-0.02340000
25.	3.64680004	6.35039997	0.03900000	-0.05539981	0.99070001	-0.05780000
30.	4.74880028	8.68219948	0.26179990	0.25639999	0.88999993	-0.09920000
35.	6.07030058	11.31919956	0.28209978	0.53299987	0.79310000	-0.14200000
40.	7.66120052	14.27559948	-0.20160000	0.88069999	0.68570000	-0.17619990
45.	9.22649956	17.06939888	-0.79420000	1.25289989	0.57900000	-0.20181260
50.	11.18919945	20.27099991	-0.95140004	1.63039970	0.47929990	-0.22596350
55.	12.94449902	22.87989998	-0.73690003	2.08200026	0.39649990	-0.25098732
60.	14.04470062	23.77470016	0.33329988	2.17169237	0.32099980	-0.27660000
65.	14.85099888	23.56800079	0.33379108	2.17544770	0.27919990	-0.29659450
70.	15.29510117	21.98589897	0.14150614	2.11045480	0.33410001	-0.32303971
75.	15.46639824	18.95680046	-0.03129816	1.88459420	0.49519980	-0.35013381
80.	15.45040035	15.85050011	-0.12684017	1.67042589	0.84350002	-0.35732001
85.	15.32980061	13.52359962	-0.14504439	1.55999994	1.11119986	-0.36582041
90.	15.08240032	10.53890038	-0.06568730	1.42086947	1.18339992	-0.37009060
95.	14.69740009	8.02599907	0.03237498	1.62074184	1.01670003	-0.36704001
100.	14.01739979	5.33160067	0.11965072	2.75694013	0.59700000	-0.35306001
105.	13.26419926	2.65889978	0.57178849	3.81518555	-0.05269990	-0.32958391
110.	12.31290054	-0.71289980	0.66155618	4.07980013	-0.65590000	-0.30617601
115.	11.50809956	-2.28350019	0.22638470	3.63779998	-1.15660000	-0.27464801
120.	10.27580070	-3.31979990	-0.27800000	2.23140001	-1.54180002	-0.25020002
125.	9.23110008	-4.24540043	-0.92952091	0.69945896	-1.88660002	-0.22221810
130.	8.11760044	-4.40310001	-0.95940000	0.18378246	-2.18639994	-0.18944530
135.	7.27110052	-4.28690004	-0.72477043	0.70973146	-2.43900013	-0.15107520
140.	6.52449989	-3.68339992	-0.29623452	0.52427411	-2.59790015	-0.11885191
145.	5.73660040	-3.06450009	0.17563929	1.19586682	-2.70515537	-0.08934450
150.	4.78999996	-2.32540011	0.26563099	1.99282956	-2.71579981	-0.06466161
155.	3.78549981	-1.69419980	-0.50409985	1.26846075	-2.69210005	-0.04154080
160.	2.64319992	-1.14429986	-0.45029980	-0.07333001	-2.63339996	-0.01814890
165.	1.64049995	-0.64339978	-0.24489990	-0.20390950	-2.58749962	-0.01174130
170.	0.95200002	-0.26840001	0.00472380	-0.18290000	-2.50225520	-0.00756050
175.	0.41649991	0.07660000	0.00800000	-0.19643791	-2.42738819	-0.00255130
180.	-0.03630000	-0.03830000	-0.00008990	-0.01260280	-2.35820007	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.70
PHI= 90.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.01170000	0.00270000	-0.03290000	-0.02420000	0.87000000	0.04950000
5.	0.42019990	0.30160001	-0.08390000	0.00710000	0.91820002	0.03725000
10.	0.99800009	1.10280001	-0.08540000	-0.03820000	1.01259995	0.02570000
15.	1.67009997	2.44099998	-0.04270000	-0.22860000	1.04069996	0.01405000
20.	2.41020012	4.07159948	0.03130000	-0.46260002	1.01839995	0.00814890
25.	3.33870029	5.88969994	0.10869999	-0.51789981	0.96550000	0.00497440
30.	4.34399986	7.93290043	0.21169999	-0.17570001	0.88959992	0.00180000
35.	5.57140017	10.23829842	0.22313651	0.35350601	0.78149992	-0.00074890
40.	6.98350048	12.82620049	0.23457332	0.63680005	0.59149992	-0.00329780
45.	8.61730003	15.60340118	0.22540520	0.50250000	0.40009990	-0.00584890
50.	10.63460064	18.84829903	0.19109499	0.31429991	0.25049731	-0.00840000
55.	12.92709923	21.77440071	0.14499749	0.14369982	0.17698130	-0.01150000
60.	14.68030071	23.81009865	0.09889999	-0.02690011	0.13450000	-0.01460000
65.	15.84749794	24.32140160	-0.06340250	-0.68559915	0.11417240	-0.01793650
70.	16.40799904	21.91050148	-0.32110003	-1.01751947	0.16776951	-0.01663660
75.	16.67020035	18.10000038	-0.37300003	-0.84779978	0.28399980	-0.01695000
80.	16.62049866	15.13309956	-0.45821732	-0.62930000	0.44970000	-0.02240000
85.	16.50600052	12.95390034	-0.39024764	-0.39690003	0.61174572	-0.01855000
90.	16.18600082	11.16630077	-0.32559320	-0.48337069	0.90420020	-0.01586070
95.	15.66729641	9.30890083	-0.45944184	-1.11974728	0.60873002	-0.01664000
100.	15.07130051	6.57680035	-0.35215431	-0.91964829	0.04231460	-0.01445200
105.	14.46940041	3.75160003	0.26290950	0.47556391	-0.53861523	-0.00815600
110.	13.36200047	0.93445808	0.43020019	-0.11812020	-0.92474341	-0.01168790
115.	11.90259933	-1.01829994	0.34713241	-1.07419193	-1.23040390	-0.01829200
120.	10.73970032	-2.51030016	0.47200000	-0.61210006	-1.55237603	-0.02609040
125.	9.15089989	-3.61389971	0.40643480	0.23443979	-1.84513974	-0.03305200
130.	7.42430019	-3.90200019	0.17383760	0.06128170	-2.10751057	-0.02995480
135.	5.78859997	-3.48100042	-0.42352021	-0.23399991	-2.32193756	-0.02063610
140.	4.81140041	-3.09710026	-0.57678843	0.31023431	-2.49725771	-0.01334610
145.	4.09929991	-2.74499989	-0.24350600	0.26746571	-2.66123199	-0.01320800
150.	3.70499992	-2.54450011	-0.24410000	0.61861819	-2.77865171	-0.01215200
155.	3.29210019	-2.02449989	-0.59369743	0.41790530	-2.81133318	-0.00720000
160.	2.71449995	-1.44590008	-0.62168431	0.23898941	-2.73375249	-0.00565600
165.	1.71129990	-0.73409992	-0.18392421	-0.09875670	-2.66121483	-0.00404690
170.	0.92490000	-0.13600001	-0.03100700	0.07121190	-2.57589436	-0.00364870
175.	0.42539990	0.06260000	0.00020000	0.09728660	-2.44278049	-0.00061530
180.	0.13850001	0.16599990	-0.00600000	0.01608000	-2.34719992	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.70
PHI= 135.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.01060000	0.00130000	-0.04360000	-0.02420000	0.87059993	0.04990000
5.	0.41709989	0.23749989	-0.00850000	-0.01540000	0.91049987	0.03665000
10.	0.96769983	1.14809990	0.04830000	-0.00319999	0.99409992	0.01055550
15.	1.71039999	2.51810002	0.15570001	-0.30090001	1.00969994	-0.00995000
20.	2.54850006	4.10499994	0.33399990	-0.57469982	0.97560000	-0.00680000
25.	3.52950001	6.21440029	0.61139995	-0.63039982	0.90699983	-0.00295000
30.	4.50399971	8.32320023	0.93979996	-0.31070000	0.81830001	0.00670000
35.	5.80730057	10.97819996	1.17970002	1.33990002	0.71829993	0.05265000
40.	7.28569984	13.67190075	1.41130006	0.32590002	0.61500001	0.10259990
45.	8.95269966	16.67799950	1.35140002	-0.34180009	0.50590003	0.15104990
50.	11.00800030	20.36529922	1.20619980	-0.90910000	0.39249980	0.19510001
55.	12.80899803	23.34470177	0.86357552	-2.62100005	0.27230000	0.24044999
60.	14.17230034	25.22630119	0.61687475	-3.40500021	0.15019991	0.30350000
65.	14.95079994	25.59019852	0.42420158	-4.10619974	0.06510000	0.32775000
70.	15.26649952	24.04099846	0.24520016	-4.92557573	0.07820000	0.34397021
75.	15.34979820	21.68439865	0.06204689	-5.71609974	0.16159990	0.35037380
80.	15.28360081	18.53420067	0.00073749	-5.32600021	0.36009991	0.35080001
85.	15.05109978	15.05570126	-0.05768591	-4.69676018	0.65719992	0.34574980
90.	14.77579975	11.35230064	-0.07240009	-3.99832702	0.73899990	0.33640000
95.	14.28390026	7.77389956	-0.04557419	-3.72758937	0.67579991	0.32535002
100.	13.55240059	4.81739998	-0.00038278	-3.52100182	0.35679990	0.31309992
105.	12.82289982	2.06929994	-0.42943441	-3.48740029	-0.21789990	0.29489991
110.	12.04329872	-0.29539999	-0.47350216	-3.40887022	-0.81279987	0.26730001
115.	11.28750038	-2.19619989	0.30836800	-2.59599638	-1.24939990	0.24470001
120.	10.29640007	-3.68550014	1.15858448	-1.45599520	-1.58019996	0.20849991
125.	9.26169968	-4.84326887	1.49348772	0.51210010	-1.92190003	0.17380001
130.	7.91500282	-5.45869541	1.74249995	2.04209995	-2.21449995	0.14740001
135.	6.78260326	-5.60349989	1.81239998	2.28950000	-2.45279980	0.12549990
140.	5.72960043	-5.09549952	1.38340020	1.26329994	-2.63309979	0.09800000
145.	5.08480263	-4.19589996	0.44990000	0.12169993	-2.75740004	0.05119990
150.	4.14879513	-2.56359982	-0.66189998	-1.06449986	-2.83409977	0.01380000
155.	3.09393430	-1.11709976	-1.30759990	-1.43080008	-2.84789991	-0.01900000
160.	2.32499981	-0.29089999	-0.58029991	-0.74749994	-2.85799980	-0.02790000
165.	1.27859986	0.26639980	-0.24789990	-0.25779992	-2.79110026	-0.02560000
170.	0.63629991	0.27300000	0.03080000	0.33800000	-2.67959976	-0.03010000
175.	0.23649991	0.17100000	0.06750000	0.18730001	-2.49319983	-0.01914010
180.	-0.04190000	-0.05340000	0.05540000	-0.07080000	-2.33380842	-0.00241030

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.70
PHI= 180.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.01170000	0.00200000	-0.04360000	-0.06389990	0.86989993	0.05000000
5.	0.51129991	0.38229990	-0.08600000	0.00990000	0.91630000	0.04750000
10.	1.07200003	1.31399965	-0.10670000	-0.10510000	1.00179994	0.04500000
15.	1.91549993	2.91130018	-0.07680000	-0.24360000	1.02360010	0.04250000
20.	2.81599998	4.83220005	0.03819990	-0.48260000	0.99659991	0.03910000
25.	3.89930010	7.26469994	0.21279980	-0.54289979	0.94139987	0.03400000
30.	5.13600016	9.94650078	0.43779993	-0.20570000	0.84210002	0.02890000
35.	6.60740042	13.07950020	0.81320006	1.46239996	0.73269981	0.02340000
40.	8.52379990	16.92530060	1.45350027	0.46590000	0.60769981	0.01730000
45.	10.96739960	21.50849915	2.09380007	-0.09786838	0.46619990	0.00800020
50.	13.81630020	25.04810143	3.05341148	-0.34036291	0.31919980	-0.00090000
55.	14.51860046	27.58309937	3.79359674	-0.54618120	0.17179990	-0.00670000
60.	15.61380005	29.85519981	3.45066762	-0.68640047	0.03420000	-0.01020000
65.	16.25669861	30.28749847	3.08316588	-0.78007251	-0.03070000	-0.01863860
70.	16.54800034	29.00469971	2.70099831	-0.85537410	0.00530000	-0.03021670
75.	16.52030182	25.91880035	2.66282010	-0.84436375	0.29699990	-0.03950000
80.	16.27000046	22.33589745	2.65471959	-0.78052801	0.46090001	-0.04780000
85.	15.91519833	17.86159897	2.63349986	-0.65600210	0.66869992	-0.05440000
90.	15.56040096	13.37860107	2.66966701	-0.38399997	0.78250003	-0.04820000
95.	15.03259945	9.17579937	2.75042009	-0.22253966	0.57749993	-0.03430000
100.	14.50200081	5.79930019	2.81432056	-0.12480009	0.22189990	-0.01970000
105.	13.99920177	3.40229988	3.29127383	-0.32010448	-0.31180000	-0.00580000
110.	13.35400009	1.19999993	3.35399866	-0.77999997	-0.79439992	0.00450000
115.	12.67299938	-0.91930002	3.28800225	-1.55210030	-1.27670002	0.00650000
120.	11.81800079	-2.63160014	3.30417705	-0.82359993	-1.60929990	0.00870000
125.	10.70389938	-3.71719956	3.54266477	0.67640281	-1.91810012	0.01590000
130.	9.28600025	-4.13859940	3.98266792	1.47520244	-2.20520020	0.02150000
135.	7.94300032	-2.82620001	4.38389969	1.90538132	-2.45510006	0.02170000
140.	6.81800032	-1.62790024	4.77730036	1.89149988	-2.67420030	0.02063640
145.	5.71850014	-0.81609994	3.97030020	1.30990005	-2.81529999	0.01668020
150.	4.45799971	-0.57389998	2.34159994	-0.51449990	-2.87710023	0.01010000
155.	3.32069993	-0.26370001	-0.11960021	-1.58080018	-2.88590026	-0.00220000
160.	2.41299987	0.11639988	-0.98029995	-1.54749990	-2.85540009	-0.01430000
165.	1.66920006	0.32200000	-0.44789991	-0.80779994	-2.81169987	-0.01910000
170.	0.72549993	0.34680000	-0.04760000	0.26850000	-2.71640015	-0.01770000
175.	0.26599991	0.18579990	0.00610000	0.13740000	-2.54520011	-0.01810000
180.	-0.00610000	-0.00690000	0.01640000	-0.09819990	-2.34600019	0.00152780

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.70
PHI= 225.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.01170000	0.00200000	-0.03290000	-0.02420000	0.87089992	0.05050010
5.	0.46419999	0.26920000	-0.04850000	0.07710000	0.92499977	0.04015010
10.	1.04200006	1.09880006	-0.02080000	0.10180000	1.00740004	0.02680002
15.	1.68099999	2.35020018	0.03570000	-0.01860000	1.02860010	0.01735000
20.	2.35190010	3.79490018	0.17399991	-0.13770001	1.00289965	0.01420000
25.	3.25939989	5.70960045	0.39739993	-0.16789980	0.94970000	0.01115000
30.	4.35999966	8.01690006	0.68859994	0.24430001	0.85450000	0.00810000
35.	5.64829969	10.52059937	0.77209979	1.98739994	0.73220003	-0.00125000
40.	7.25349998	13.41019917	0.40759981	1.06589997	0.55209962	-0.00360000
45.	9.15819931	16.69249916	0.20850001	0.41110000	0.42890000	-0.01065000
50.	11.24569988	19.92690086	-0.04079999	-0.23139992	0.33929980	-0.01170000
55.	13.55109882	23.32859993	-0.07949999	-0.64529991	0.30229980	0.00175000
60.	15.12440109	25.28190231	0.17760001	-0.75969988	0.27370000	0.00660000
65.	15.99979973	25.94980049	0.47840002	-0.72979993	0.25970000	0.01285000
70.	16.41150093	23.75649834	0.78169996	-0.61730003	0.27370000	0.01330000
75.	16.47930145	20.35970116	1.04610002	-0.26689994	0.30659980	0.02865000
80.	16.47000122	16.64109993	1.29359996	0.29010010	0.39050001	0.04380010
85.	16.31299973	13.82070065	1.53659999	1.33113790	0.73439991	0.04325000
90.	16.13999939	11.84180069	1.77559984	1.80718625	0.77049983	0.02870000
95.	15.76580143	9.27360058	2.01939988	2.05671048	0.66270000	0.01805000
100.	15.16340065	6.15439939	2.26069999	2.23920059	0.33690000	0.00800000
105.	14.34979916	3.48220015	2.10500002	0.85785359	-0.21380000	-0.00150010
110.	13.27730179	0.94559997	1.71250010	-0.07254671	-0.85990000	-0.01710010
115.	12.40620041	-1.08620000	1.65009737	0.52147281	-1.38159990	-0.02870010
120.	11.50199986	-2.52460027	1.61036456	0.40363526	-1.71429992	-0.03330000
125.	10.21699905	-3.39279985	1.50355744	-0.28500909	-2.05720019	-0.03080000
130.	8.44429970	-3.67240024	1.49090004	-1.06953013	-2.35290003	-0.02540010
135.	6.87660027	-3.49379992	0.73229992	-1.38574588	-2.53859997	-0.01980010
140.	5.73419952	-3.14050007	0.19190001	-1.55683732	-2.71350002	-0.01130010
145.	4.93459988	-2.71899986	-0.10909991	-1.69512784	-2.83309960	-0.00592170
150.	4.13800001	-2.25390029	-0.34909993	-1.78021860	-2.91720009	-0.00120010
155.	3.18829989	-1.72850001	-0.29400003	-1.60793054	-2.91830039	-0.00420010
160.	2.20330000	-1.07969987	-0.14449999	-1.09080124	-2.85909986	-0.00720010
165.	1.36380005	-0.58510000	-0.09469999	-0.73050481	-2.78639994	-0.00750010
170.	0.81389982	-0.14960000	0.00000000	-0.10030000	-2.66079998	-0.01230010
175.	0.30640000	0.10890000	0.06750000	-0.06270000	-2.51080179	-0.00583870
180.	-0.02260000	-0.02220000	0.05540000	-0.07080000	-2.34891891	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.70
PHI= 270.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.01170000	0.00270000	-0.03290000	-0.02420000	0.87000000	0.04960000
5.	0.41540000	0.27669990	-0.04460000	0.07710000	0.91390002	0.03810000
10.	0.93570000	1.04530001	-0.02080000	0.10180000	1.00239992	0.02660000
15.	1.70360017	2.48990011	0.03570000	-0.01860000	1.02709985	0.01510000
20.	2.46390009	3.97469974	0.15130000	-0.13770001	1.00359964	0.00360000
25.	3.43880010	5.80490017	0.26479992	-0.16789980	0.95079982	-0.00480000
30.	4.43420029	7.81739998	0.67069995	0.24430001	0.85780001	-0.00790000
35.	5.73409986	10.31939983	0.77209979	1.90739994	0.72049981	-0.01100000
40.	7.20279980	13.04619789	0.41259980	1.06589997	0.55129993	-0.01330000
45.	9.05719948	16.50919914	0.38029993	0.49069992	0.37720001	-0.01040000
50.	11.43249989	20.68430138	0.40809992	0.09349999	0.27160001	-0.00520000
55.	13.62469359	24.04879951	0.43590003	-0.25470001	0.24270000	-0.00060000
60.	15.24520016	26.05270195	0.46380001	-0.71599990	0.24010000	0.00230000
65.	16.03009987	25.39980125	0.42900002	-0.87526733	0.21599990	-0.00730000
70.	16.47389793	22.40929985	0.38999963	-0.91006209	0.19790000	-0.01230000
75.	16.55500031	18.18089867	0.29925492	-0.78724527	0.24810000	-0.01720000
80.	16.50000000	15.22850132	0.26254612	-0.60160011	0.36399990	-0.01940000
85.	16.32799911	12.81210041	0.33966753	-0.47010242	0.72049981	-0.02030000
90.	16.05519867	10.57109928	0.46946603	-0.41639996	0.89029992	-0.02100000
95.	15.71809864	8.55399990	0.61646694	-0.42717403	0.82110000	-0.01510000
100.	15.13200092	6.33239985	0.68879914	-0.43599993	0.42159981	-0.00600000
105.	14.32630062	3.47700024	0.40179810	-1.52200043	-0.18300000	-0.00150000
110.	13.38210011	1.24629700	-0.00520000	-0.91679996	-0.78199983	-0.00170000
115.	12.19900049	-0.80760002	-0.03203090	0.73460400	-1.32130003	-0.00180000
120.	11.05210114	-2.36909986	0.03458450	0.89119995	-1.65510011	-0.00190000
125.	9.50790024	-3.45420003	0.20591840	-0.29106230	-2.02059994	0.00180000
130.	7.85549974	-3.61179996	0.17160000	-1.23439991	-2.28719997	0.01020000
135.	6.17899990	-3.52059984	0.01499161	-1.56775534	-2.48780012	0.01600000
140.	5.09200001	-3.21740007	-0.08264619	-1.67653072	-2.64070010	0.01942590
145.	4.42269993	-2.90950036	-0.23249219	-1.78461576	-2.78059997	0.02200000
150.	3.72270012	-2.38569999	-0.42960003	-1.81230760	-2.86450005	0.01950000
155.	2.87670016	-1.67799997	-0.29909992	-1.59222865	-2.85320020	0.00950000
160.	2.05869985	-0.92830002	-0.15029979	-0.96163464	-2.79530001	0.00150000
165.	1.38870001	-0.45959991	-0.09489989	-0.73630559	-2.71840000	-0.00220000
170.	0.74879992	0.00000000	0.06255850	-0.28727111	-2.58449984	-0.00430000
175.	0.32339990	0.26159990	-0.00940000	0.12600000	-2.47260343	-0.00407630
180.	0.05580000	0.06160000	-0.02480000	0.32089990	-2.35094070	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1709.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.70
PHI= 315.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.01060000	0.00170000	-0.03290000	-0.02420000	0.87039977	0.05010000
5.	0.42569989	0.21829990	-0.04850000	0.07710000	0.92449993	0.04196000
10.	1.04000010	1.09189999	-0.00780000	0.02720000	1.02160001	0.03416650
15.	1.76719999	2.47069979	0.05330000	-0.01860000	1.05060005	0.02684870
20.	2.52059984	4.03389978	0.17399991	-0.13770001	1.02489996	0.02000000
25.	3.44430041	5.94449997	0.41139993	-0.16789980	0.97700000	0.01390000
30.	4.51420021	8.18489933	0.69979995	0.03550011	0.88749993	0.00730000
35.	5.81930017	10.83710003	0.77209979	0.11570001	0.76719981	-0.00360000
40.	7.35860062	13.60340023	0.40759981	0.18240000	0.58840001	-0.00640000
45.	9.11730003	16.50430107	0.11690000	0.33669999	0.46120000	-0.00910000
50.	11.31750011	20.19479942	-0.19469979	0.52289993	0.37320000	-0.01200000
55.	13.59859943	23.57950020	-0.40509978	0.71130002	0.31309980	-0.01530000
60.	15.10680008	25.86450272	-0.68466562	0.92440003	0.29139990	-0.01860000
65.	15.99410057	26.13979912	-0.86466712	1.15319991	0.26470000	-0.02930000
70.	16.36989784	25.94120026	-1.02505362	1.07759988	0.27230000	-0.04030000
75.	16.51750183	23.29289818	-1.18459928	0.44099998	0.31580001	-0.05140000
80.	16.38000049	19.62959862	-1.31359994	-0.05589992	0.42009991	-0.05900000
85.	16.18099976	15.73250103	-1.50833952	-0.90534782	0.55573990	-0.05410000
90.	15.86800098	11.63840008	-1.64839995	-1.79200052	0.73049992	-0.04880000
95.	15.40830040	8.57209982	-1.80926073	-2.46456432	0.64219981	-0.03720000
100.	14.88019943	5.68140030	-1.93199992	-2.85999966	0.33340001	-0.02650000
105.	14.31129932	3.07819986	-1.93399894	-3.78478265	-0.20299990	-0.01660000
110.	13.34710026	0.72768158	-1.82000005	-2.96417236	-0.83539993	-0.01050000
115.	12.46069813	-1.44549990	-1.49591351	-1.49530958	-1.29920006	-0.00800000
120.	11.33069992	-2.75370002	-1.20799994	-0.87711298	-1.59239995	-0.01210000
125.	9.71199989	-3.57719994	-0.88874108	-0.01471843	-1.90400004	-0.00870000
130.	7.98089971	-3.75160003	-0.65361643	-0.42590001	-2.16099977	-0.00870000
135.	6.03009987	-3.55100012	-0.52297568	-0.38219979	-2.37330008	0.00750000
140.	4.91359997	-3.27960014	-0.45271730	-0.25400001	-2.57130003	0.01500000
145.	4.21110010	-2.87179995	-0.47446132	-0.29030000	-2.76030040	0.02390000
150.	3.65869999	-2.34729981	-0.48657981	-0.30759992	-2.86369991	0.03160000
155.	2.99870014	-1.29479992	-0.24570280	-0.36090000	-2.84989977	0.02372240
160.	2.23009968	-0.28279990	-0.12103629	-0.29769993	-2.79290032	0.01722170
165.	1.40799975	0.27609980	-0.09489989	-0.40779990	-2.71689987	0.01202120
170.	0.84099990	0.36080000	0.00080000	-0.13030000	-2.58720016	0.00770070
175.	0.36829990	0.20629990	0.06750000	-0.06270000	-2.48169994	0.00332890
180.	-0.00149990	-0.00990000	0.05540000	-0.07000000	-2.34000005	0.00001910

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.70
PHI= 360.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.01060000	0.00170000	-0.04360000	-0.02420000	0.87290001	0.04980000
5.	0.43879998	0.34959998	-0.04100000	0.00990000	0.92129987	0.03800000
10.	1.06559992	1.31919992	-0.01670000	0.11180000	1.01650000	0.02730000
15.	1.92779994	2.95370007	0.05020000	-0.00360000	1.04259992	0.01660000
20.	2.76400031	4.71049976	0.10130001	-0.01770001	1.02370000	0.00560000
25.	3.93810010	7.33699989	0.29089990	-0.04289980	0.98629981	-0.00240000
30.	5.12510014	9.98819923	0.09849999	0.27430001	0.91279978	-0.01060000
35.	6.48340042	12.71489906	-0.40459980	1.65489982	0.78149992	-0.01880000
40.	8.16539955	16.11349869	-1.05039980	2.69169974	0.59149992	-0.02590000
45.	10.44839954	20.49869977	-1.86710012	3.44979978	0.35839990	-0.03547610
50.	12.77039909	24.65319824	-2.90050046	3.48000033	0.17250000	-0.04400000
55.	14.56930065	27.50090027	-3.57640020	2.46700001	0.07010000	-0.05319060
60.	15.82629967	29.77659988	-3.80971055	2.03122520	-0.04200070	-0.06156150
65.	16.47890091	30.49950027	-2.97369106	0.62247650	-0.10770340	-0.06413041
70.	16.74359894	28.93709755	-3.46351790	-0.21533012	-0.09714200	-0.06644400
75.	16.79959869	26.15110016	-3.81507945	-0.80033503	0.00203170	-0.07403600
80.	16.76679993	22.60630035	-3.80516212	-1.58665407	0.21154701	-0.08056000
85.	16.65090121	17.72963715	-3.78140044	-1.90705001	0.47149980	-0.07919990
90.	16.35440063	13.78059864	-3.65701365	-1.99035299	0.80735350	-0.07537761
95.	15.90379906	9.76439953	-3.58332229	-1.70976901	0.46436420	-0.07430001
100.	15.30800070	6.14160013	-3.34199977	-1.07732797	0.08447850	-0.07591640
105.	14.52700056	3.19300008	-3.51666355	-0.20924020	-0.29983920	-0.06000000
110.	13.61810017	0.92663640	-2.06637425	1.43209030	-0.82417840	-0.05215480
115.	12.65940094	-1.00600006	-2.55845594	2.19120526	-1.25174284	-0.04112000
120.	11.54560089	-2.53030014	-3.00051999	0.47515321	-1.58365583	-0.03763200
125.	10.30400085	-3.20999980	-3.34925961	-0.09520335	-1.87909985	-0.04046750
130.	8.93000044	-2.99790025	-3.62741375	-1.13462675	-2.12202072	-0.03467640
135.	7.32029963	-2.22000016	-3.46599960	-0.41109431	-2.33909988	-0.03011520
140.	5.79399967	-1.24500987	-3.37200022	-0.52300571	-2.53650022	-0.01790000
145.	4.53069973	-0.49619991	-3.06950092	-0.01955378	-2.69903612	-0.01484400
150.	3.52089977	-0.49350002	-2.22304201	-0.36392412	-2.75410843	-0.00197200
155.	2.61890006	-0.24630000	-0.75759995	-0.53031092	-2.78732014	-0.00554390
160.	1.96259999	-0.00040011	0.40259570	-0.92119960	-2.72694445	-0.00174970
165.	1.67299986	0.24079999	0.14060751	-0.00008492	-2.62874675	-0.00207180
170.	1.17249990	0.54610002	-0.04704250	-0.02495490	-2.53071822	-0.00193600
175.	0.69709992	0.46990001	-0.00240000	-0.06002010	-2.42330027	-0.00149600
180.	0.22000000	0.24399990	0.00320000	0.00045990	-2.34900583	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.80
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00100000	0.00010000	-0.05460000	0.03720000	0.92119992	-0.01550000
5.	0.45059991	0.11560000	-0.03470000	0.05810000	0.97469991	-0.01500000
10.	0.93050003	0.20780003	-0.00830000	-0.04100000	1.06900001	-0.01510000
15.	1.47520018	1.67929995	-0.22209992	-0.12050000	1.06310010	-0.02620000
20.	2.17100024	3.26120019	-0.59070003	-0.20019990	1.04100002	-0.03460000
25.	3.04370022	5.44560051	-1.12649989	-0.09870000	0.99200000	-0.04170000
30.	4.55030002	9.20850041	-1.70330012	0.04977040	0.90639991	-0.04830000
35.	6.26670027	13.36090030	-2.30050039	0.23660051	0.80149990	-0.05800000
40.	7.97810030	17.20739937	-3.21149993	0.30033000	0.70130002	-0.06710000
45.	9.68089962	20.39159966	-3.47069992	0.47402330	0.57410002	-0.07539999
50.	11.21430016	22.64300074	-3.25549984	0.53101797	0.41939980	-0.08109999
55.	12.31090011	23.80559921	-2.82929993	0.54704602	0.27059980	-0.08180001
60.	12.99629974	24.15140152	-2.36069059	0.53010190	0.00104230	-0.08471240
65.	13.59319782	24.25270081	-2.15521002	0.35519000	0.00315770	-0.08753350
70.	13.99899960	23.41760254	-1.86100006	-0.19290000	0.04630000	-0.09230000
75.	14.34129906	21.50089836	-2.15689993	-1.10736982	0.17500000	-0.09450000
80.	14.59200001	19.15979958	-2.30200020	-1.64049985	0.45599951	-0.10249990
85.	14.79819965	15.93589878	-2.33472204	-2.10643768	0.65090101	-0.10204900
90.	14.94970036	12.37779999	-2.21239686	-2.20500970	0.91704023	-0.10159811
95.	14.99870014	8.49230003	-2.19094992	-1.81571054	0.66719651	-0.10225441
100.	14.85300064	5.06839943	-1.83333945	-1.19241226	0.23703960	-0.10013460
105.	14.56660175	1.33450007	-1.73069525	-0.61206003	-0.20301130	-0.09981000
110.	14.06590176	-1.17919993	-1.75520110	0.20000011	-0.77909982	-0.07874400
115.	13.42329979	-2.61949992	-1.98456005	0.23569206	-1.22044373	-0.06191820
120.	12.60449982	-3.55409908	-2.15704703	0.07300772	-1.61002718	-0.04995440
125.	11.67609978	-4.32390070	-2.54244733	0.04000045	-1.95792365	-0.04910440
130.	10.57840061	-4.60599947	-3.61935234	-1.68197525	-2.21814071	-0.04903040
135.	9.26560020	-4.29740047	-3.82231490	-2.25920010	-2.42659855	-0.03893040
140.	7.70200027	-3.30450010	-3.75600004	-1.72039907	-2.62400007	-0.02950000
145.	6.00150005	-2.00720016	-3.51471616	-1.00026230	-2.80752325	-0.02240300
150.	4.64000000	-1.00539902	-2.60349901	-0.79799998	-2.86470413	-0.00575200
155.	3.45369983	-0.25520003	-1.14000000	-1.22068443	-2.86263371	0.00003600
160.	2.43200016	0.34169990	-0.60133344	-1.07569075	-2.82359791	-0.00246000
165.	1.54400004	0.63939995	-0.25860000	-0.45529991	-2.74942470	-0.00092900
170.	0.80900000	0.61019993	-0.03840000	-0.14989330	-2.65224314	-0.00338670
175.	0.40750000	0.41960001	-0.00934101	-0.10579161	-2.52909732	-0.00365350
180.	0.06600000	0.09420000	0.00660000	-0.00346000	-2.43720007	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.80
PHI= 45.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00100000	0.00010000	-0.05460000	0.03720000	0.93499982	-0.00950000
5.	0.44559988	0.09990000	-0.10930000	0.10750000	0.97979393	-0.00720000
10.	0.92049998	0.62929976	-0.23249991	0.07000001	1.02090001	-0.00930000
15.	1.46020019	1.48249960	-0.43209979	0.00649999	1.00469995	-0.01530000
20.	2.16140008	2.77179980	-0.36510000	-0.00990000	0.97350001	-0.02270000
25.	3.01070012	4.55799961	-0.19880000	0.12629999	0.92039992	-0.03050000
30.	4.05020036	6.78990030	-0.66599995	0.31489990	0.84590000	-0.04080000
35.	5.19710016	9.34459972	-1.33199966	0.59349990	0.75459993	-0.08950000
40.	6.43300009	12.12659931	-1.94349992	0.09999992	0.64249992	-0.12209991
45.	8.03439999	15.53920078	-1.96940017	1.10059993	0.54069990	-0.15129999
50.	9.56599903	18.13700104	-1.25300003	1.66539979	0.44970000	-0.18659991
55.	11.05740166	20.13290215	-0.39569990	2.05249953	0.36119980	-0.23579800
60.	12.[illegible]349934	21.72669983	0.52550000	2.28540074	0.25690001	-0.27859900
65.	12.64680000	21.78989792	1.12961340	2.35920477	0.22356661	-0.31323811
70.	13.32510185	20.44119835	1.65769982	2.32527876	0.30723411	-0.33573562
75.	13.66179943	18.56949997	2.03650622	2.03373647	0.35515791	-0.35109740
80.	13.92299843	16.13829994	2.17199993	1.71861017	0.40340181	-0.35725281
85.	14.12650108	13.36509895	2.21329999	1.26448250	0.73172653	-0.36000001
90.	14.16330051	10.37519932	2.21950030	0.80006343	0.96300351	-0.35879999
95.	14.07559967	6.94230032	2.15950036	0.59437436	0.73175621	-0.35563990
100.	13.87390041	4.35859966	2.07659904	0.75905567	0.26560020	-0.34640002
105.	13.59899998	1.63329995	2.01646614	1.93930041	-0.30899990	-0.33340001
110.	13.34049988	-0.33839998	1.70148754	2.60011363	-0.80646622	-0.31539991
115.	13.00180149	-2.80549976	1.41565871	3.17202820	-1.17160904	-0.28663322
120.	12.41959953	-3.49429989	1.29079986	3.43066025	-1.54080151	-0.25300002
125.	11.52980042	-4.22900009	0.86874050	2.84000911	-1.84212971	-0.22790961
130.	10.17229939	-4.46419954	0.26542911	1.13856020	-2.07399988	-0.19736360
135.	8.60820008	-4.01999998	-0.18099980	0.64089787	-2.32932758	-0.16075850
140.	7.02000046	-3.53619981	-0.26385611	0.24296099	-2.53739977	-0.12690000
145.	5.45160007	-2.77570009	-0.21250010	-0.57027500	-2.70071594	-0.09621201
150.	4.05460024	-2.11870003	0.37192410	0.00612205	-2.80935661	-0.06562060
155.	2.81340027	-1.39260006	-0.03422689	0.69181484	-2.86332846	-0.03765790
160.	1.95519996	-0.66050005	-0.35859600	-0.15676852	-2.79670429	-0.01870000
165.	1.24959993	-0.10720000	-0.00250040	0.04020460	-2.75003743	-0.01331670
170.	0.68379992	0.23469990	0.01881130	-0.17452410	-2.67877340	-0.00705540
175.	0.44610000	0.35540000	0.00050000	-0.12494000	-2.53906025	-0.00300000
180.	0.22540000	0.30390000	0.00330000	-0.00010000	-2.43200016	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.00
PHI= 90.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00100000	0.00000000	-0.04400000	0.03720000	0.92139977	-0.01550000
5.	0.44559980	0.00030000	-0.00199990	0.03750000	0.90000002	-0.00875000
10.	0.08979989	0.52309990	-0.14900000	-0.06920000	1.00049965	-0.01240000
15.	1.46020019	1.34520006	-0.22339991	-0.26350000	1.00069992	-0.01995000
20.	2.15100026	2.55790019	-0.29700000	-0.20990000	1.06669974	-0.02700000
25.	3.01070012	4.24090004	-0.30459900	-0.22370000	1.03449965	-3.02865000
30.	3.90559999	6.40320015	-0.47470000	0.02719989	0.97309983	-0.02250000
35.	4.92509985	8.77050056	-0.59350002	0.24030000	0.86819983	-0.01235000
40.	6.14919996	11.0826901	-0.66020000	0.43269992	0.72430003	0.00460000
45.	7.74650049	15.25329876	-0.64420003	0.35669991	0.55760002	0.01075000
50.	9.44719982	18.35950089	-0.59719900	0.28009993	0.38779980	-0.00000000
55.	10.90060073	19.70649910	-0.53000005	-0.12550001	0.26029980	-0.01075000
60.	12.00269978	20.16150093	-0.47519991	-0.64920002	0.22799998	-0.01850000
65.	12.90029849	19.92930031	-0.44400002	-0.67370975	0.24623521	-0.01649700
70.	13.49140167	18.80900002	-0.44220001	-0.73642993	0.34597170	-0.01600000
75.	13.90560047	17.57539940	-0.44679990	-0.76873320	0.48794300	-0.01548330
80.	14.31279945	15.30010120	-0.46763581	-0.80039984	0.43809990	-0.01400000
85.	14.48199940	12.75669956	-0.50820303	-0.75010002	0.76380002	-0.01345000
90.	14.49730192	10.21719933	-0.57666653	-0.68490404	0.98603302	-0.01321170
95.	14.43560123	7.41809940	-0.66634619	-0.36420000	0.83739990	-0.01365000
100.	14.23060131	4.86049986	-0.71799994	-0.28993341	0.37709990	-0.01410000
105.	13.95000032	2.59770012	-0.68989998	-0.22213340	-0.21570000	-0.01470000
110.	13.55150032	0.79239964	-0.28752849	0.01419979	-0.77609992	-0.01794190
115.	13.07600021	-0.64479971	0.03499180	0.08209990	-1.22069602	-0.02427120
120.	12.33209991	-2.00420022	0.39759991	-0.09790000	-1.62226605	-0.03349600
125.	11.26790047	-3.13230014	0.44650400	-0.54181343	-1.92099714	-0.03613500
130.	9.79060115	-4.24799967	0.12709981	0.11120000	-2.16900015	-0.03280760
135.	8.02449989	-4.42120020	-0.00790000	0.54712993	-2.40466166	-0.02431000
140.	6.21570015	-4.01359987	-0.17176020	0.26930550	-2.56690407	-0.01567340
145.	4.82579994	-3.20140020	-0.31502381	0.37460010	-2.73421001	-0.01392490
150.	3.80239987	-2.22200012	-0.53175312	0.65092623	-2.87965441	-0.01417640
155.	2.93200016	-1.20400001	-0.53211159	0.61415172	-2.89941216	-0.00876400
160.	2.12219977	-0.48099980	-0.26560000	0.18741700	-2.35506010	-0.00382160
165.	1.48009992	0.03630000	-0.00931600	0.00308260	-2.77462149	-0.00442300
170.	0.95700002	0.34020001	0.03317660	-0.06473930	-2.60283367	-0.00289780
175.	0.50419992	0.53149992	0.05290000	-0.11710040	-2.54582477	0.00012330
180.	0.13339990	0.20600000	0.02940000	0.01330000	-2.43644047	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.80
PHI= 135.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00100000	0.00000000	-0.05460000	0.03720000	0.91999990	-0.00950000
5.	0.44559988	0.09420000	-0.03930000	0.01310000	0.99000002	-0.01005000
10.	0.92049998	0.68199980	-0.09249990	-0.13180001	1.06170011	0.00000000
15.	1.46020019	1.57519960	-0.22209981	-0.26350001	1.05059983	0.00915000
20.	2.16140008	2.89490056	-0.00510000	-0.41000001	1.02740002	0.02230000
25.	3.01870012	4.55799961	0.15120000	-0.70769989	0.97019982	0.04015000
30.	4.02930021	7.02039957	0.25130001	-1.35109973	0.89289981	0.06310000
35.	5.17970037	9.37849903	0.63300003	-1.95650005	0.79049993	0.08655000
40.	6.47390032	12.16269970	1.40979990	-2.66700006	0.66750002	0.11950000
45.	8.10309887	15.36760044	1.54469991	-3.20570016	0.5529999[illegible]	0.14384989
50.	9.64470005	17.20690346	0.94660002	-3.20010000	0.44090000	0.16500001
55.	11.02030029	19.66750145	0.15099999	-3.14549994	0.33129990	0.19194999
60.	11.95110035	20.08140106	-0.82230002	-3.22079932	0.22430000	0.23079981
65.	12.67619896	21.10499756	-1.22380006	-3.36479998	0.17140000	0.25184989
70.	13.24160194	20.29600061	-1.87719989	-4.59000005	0.21160001	0.26351961
75.	13.67010117	18.42710114	-2.13580010	-4.78059997	0.34090000	0.26854992
80.	14.00450039	16.26820183	-2.18009986	-4.34009971	0.52090001	0.26699990
85.	14.23230076	13.46630001	-2.20019984	-4.00040054	0.70109993	0.26274979
90.	14.26020087	9.93520164	-2.17040020	-3.55249977	0.93110001	0.25700000
95.	14.19079971	7.00159979	-2.11049986	-3.31510019	0.77649993	0.24874990
100.	13.95359090	3.90050030	-1.93660033	-3.22539997	0.43009900	0.24050000
105.	13.63530064	1.32510006	-1.91360021	-3.04909992	-0.13499990	0.22640002
110.	13.29349899	-0.96630001	-1.89610004	-3.59710050	-0.72449982	0.21139991
115.	12.72539006	-2.49399972	-1.47390020	-3.74630022	-1.25559986	0. 85[illegible]0000
120.	11.97669888	-3.86029983	-1.31699991	-3.83130007	-1.58940005	0.15090001
125.	10.78649902	-4.80976582	-0.35650000	-1.80600004	-1.90750003	0.11230000
130.	8.91269970	-4.92089977	1.04059994	0.40919989	-2.16130018	0.09640000
135.	7.38539982	-4.46650020	1.39780009	1.92059983	-2.37729979	0.08500000
140.	5.96679974	-3.71699977	1.25089993	1.74949960	-2.57620001	0.07340000
145.	4.96849976	-3.13470006	0.81859994	2.44250011	-2.76240015	0.06200000
150.	3.94509959	-2.31159973	0.72790003	2.45009995	-2.93370030	0.05220000
155.	3.03020000	-1.25576365	0.72109997	3.61119986	-2.91769981	0.03360000
160.	2.17419982	-0.35779980	0.31360000	2.67039980	-2.86049999	0.00796570
165.	1.47320020	0.00900000	-0.21669990	-0.03190000	-2.80119991	0.00390000
170.	0.92600001	0.30100000	0.01730000	-0.10099989	-2.69509983	0.00400000
175.	0.45559990	0.36579990	0.01590000	0.00320000	-2.55210018	0.00158410
180.	0.11090000	0.15220000	0.04610000	0.10560000	-2.43170023	0.00001500

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.80
PHI= 180.

ALPHA	CN	CM	CY	CYM	CN	CR
0.	0.00100000	0.00010000	-0.00479990	0.02850000	0.92019981	-0.01250000
5.	0.45059991	0.12690000	-0.11430000	0.05810000	0.96490002	-0.00940000
10.	0.93050003	0.57899994	-0.24830000	-0.04100000	1.07039990	-0.01360000
15.	1.47520018	1.51249969	-0.44709980	-0.12850000	1.09120011	-0.02041250
20.	2.17100024	2.85010004	-0.38510001	-0.20819990	1.04329991	-0.02060620
25.	3.04370022	4.72220039	-0.01060010	-0.30479990	0.98479992	-0.03030440
30.	4.30320065	7.56020021	0.92939985	-0.64760000	0.90009981	-0.02570000
35.	5.94819975	11.06599998	1.86039996	-1.14299965	0.79610002	-0.01224990
40.	7.68350029	14.78200054	2.65419984	-1.66520000	0.68859982	-0.00856990
45.	9.54219913	18.44410133	2.86199009	-1.74609984	0.56659991	-0.01180000
50.	11.03550053	20.67020226	2.67569971	-1.31069996	0.42729980	-0.01790000
55.	12.14020061	22.40959930	2.34009995	-0.01669992	0.28420001	-0.03030000
60.	12.95020103	23.27149963	2.03010141	-0.44459990	0.12130000	-0.04660000
65.	13.59259892	23.07149887	1.80002743	-0.68009992	0.04410000	-0.05260000
70.	14.06689930	21.95970154	1.78496504	-1.06459975	0.14559990	-0.05970000
75.	14.42980003	20.19989967	1.73136006	-1.00549996	0.40410000	-0.06180000
80.	14.73210049	17.14729881	1.68157566	-0.90719992	0.58639991	-0.06670000
85.	14.91090012	14.20379925	1.63066661	-0.68039991	0.79049993	-0.06830000
90.	15.03709806	10.59930038	1.57600009	-0.50000001	0.94029993	-0.06540000
95.	14.95110130	7.53410101	1.52240263	-0.63279992	0.70510000	-0.06090000
100.	14.75869846	4.56750011	1.47627568	-1.03399992	0.31330001	-0.04700000
105.	14.48159981	1.87930012	1.56103338	-1.15760005	-0.21300000	-0.03950000
110.	14.01119995	-0.67039984	1.43219018	-1.24009992	-0.71010000	-0.03460000
115.	13.22019958	-2.68000007	1.45739447	-0.85360020	-1.23420000	-0.03200000
120.	12.29260063	-4.01160049	1.00142431	0.26393841	-1.60900022	-0.03110000
125.	11.23590088	-4.63129997	2.97599959	0.20061815	-1.95809986	-0.02270000
130.	10.07310009	-4.89039946	4.33160067	1.73714232	-2.20344687	-0.01420000
135.	8.80810833	-4.92630053	4.66300011	2.00520015	-2.41960001	-0.00660000
140.	7.51809992	-4.42270041	4.52480030	1.15519991	-2.62970042	0.00020000
145.	6.18379974	-3.48960021	3.72060037	0.91370004	-2.77449989	0.00764320
150.	4.76989985	-2.17949986	2.65210009	0.48329997	-2.89659977	0.00902160
155.	3.37200011	-0.91309988	1.14859998	0.99930006	-2.91669989	0.00480000
160.	2.37179995	-0.18570000	0.52700001	1.25390005	-2.85570002	-0.00020000
165.	1.61659968	0.23980001	0.25449991	0.56379992	-2.78970003	-0.00860000
170.	1.08979964	0.53429991	0.05240000	0.09380001	-2.67070007	-0.01730000
175.	0.58560002	0.57419991	0.16840000	0.16290000	-2.51800002	-0.00866180
180.	0.12570000	0.17260000	0.02660000	0.01310000	-2.43179989	0.00000000

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FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.80
PHI= 225.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00100000	0.00000000	-0.04400000	0.03230000	0.92369992	-0.01350000
5.	0.44559988	0.09170000	-0.03199990	0.00310000	0.90009992	-0.01105000
10.	0.88979989	0.65350002	-0.04720000	-0.00380000	1.06559992	-0.01300000
15.	1.46020019	1.56769967	-0.06960000	-0.00709989	1.10640001	-0.02005000
20.	2.15100026	2.93900013	-0.11149990	-0.10019990	1.09419990	-0.03000000
25.	3.01870012	4.77390003	-0.15380001	0.02630000	1.04740000	-0.05045000
30.	4.02580023	7.01959991	-0.20490000	0.10720000	0.98570001	-0.04920000
35.	5.16850090	9.92450142	-0.26279992	0.00059999	0.90179992	-0.04365000
40.	6.36510038	13.13539982	-0.31549978	0.01700000	0.79409982	-0.03760000
45.	7.95639944	16.16219902	-0.37050971	-0.00309999	0.64009991	-0.03515000
50.	9.63250065	18.61020088	-0.30509998	-0.20919991	0.5090999	-0.03160000
55.	11.45760059	20.97419930	-0.10139990	-0.37919909	0.36070001	-0.02105000
60.	12.57800102	21.61409950	0.19570002	-0.59779990	0.3060999	-0.01400000
65.	13.27640152	21.67300034	0.51129991	-0.68669993	0.29499998	-0.02075000
70.	13.79349995	21.10669899	0.59122312	-0.57139981	0.35900000	-0.03522720
75.	14.18330097	19.08220100	0.56540000	-0.24699992	0.45449990	-0.04105000
80.	14.46320057	16.76349831	0.45440000	0.20200001	0.59302701	-0.04440000
85.	14.66570091	13.83809948	0.27310011	0.84700002	0.83229903	-0.03597270
90.	14.77840042	10.25360012	0.33740002	1.14439976	0.91670001	-0.02710000
95.	14.70359993	7.41809940	0.65300173	0.99539002	0.74739993	-0.02195000
100.	14.41670036	4.69300032	0.65200001	0.46621059	0.43419990	-0.01910000
105.	14.05370140	2.12690043	0.49479419	0.45701830	-0.13229990	-0.02090000
110.	13.63650131	0.10837692	0.40435299	0.34000002	-0.74979991	-0.03570000
115.	13.17230034	-1.66370022	0.39506300	0.59226143	-1.30950010	-0.04630000
120.	12.42790031	-3.00019996	0.21196501	1.11542737	-1.69600010	-0.05021330
125.	11.39660072	-3.98200001	0.32779900	1.11059900	-2.00010014	-0.05750000
130.	10.01220131	-4.50150013	0.62849993	-0.42670000	-2.22660017	-0.05090000
135.	8.39440060	-4.46660089	0.48529992	-1.12049997	-2.41270010	-0.04390000
140.	6.52700043	-4.00909900	0.15000001	-0.98030003	-2.50990002	-0.03640000
145.	4.92669964	-3.36140013	-0.05499999	-0.47070000	-2.79250002	-0.02770000
150.	3.76829982	-2.32820010	-0.18539999	-0.60469979	-2.95520020	-0.02030000
155.	2.83879995	-1.35409975	-0.26599991	1.25320005	-2.96530000	-0.02120000
160.	2.00589991	-0.65139985	-0.27650002	-0.69120002	-2.90070009	-0.01443990
165.	1.38979995	-0.11920000	-0.00000000	0.02230000	-2.81970000	-0.01220470
170.	0.93059993	0.26120001	0.20719990	0.53939992	-2.68419039	-0.00820000
175.	0.53689992	0.52649993	0.20350000	0.29470000	-2.54400015	-0.00434000
180.	0.18250000	0.25649990	0.04220000	0.05450000	-2.44581795	-0.00001030

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.80
PHI= 70.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	-0.04710000	0.03720000	0.92209983	-0.01350000
5.	0.44559988	0.05760000	-0.04230000	0.00310000	0.96300000	-0.00840000
10.	0.92049998	0.55399990	-0.04570000	0.03000000	1.03539991	-0.01200000
15.	1.46020019	1.30809987	-0.06960000	-0.05059999	1.03690004	-0.01090000
20.	2.16140008	2.62500000	-0.07060000	-0.13000001	0.99059981	-0.03600000
25.	3.01870012	4.25990009	-0.05820000	-0.24579990	0.94209982	-0.03000000
30.	4.04789972	6.55410004	-0.02550990	-0.32929990	0.88399982	-0.03230000
35.	5.15319967	9.05460072	0.01120000	-0.38009994	0.81190002	-0.01050000
40.	6.34430027	12.09920120	0.15000001	-0.41570002	0.72399992	0.00530000
45.	8.06949902	15.68509960	0.27130002	-0.46459982	0.58350003	0.01040000
50.	9.81039906	18.75689888	0.38710001	-0.52329987	0.42090000	0.00900000
55.	11.42610073	20.77419853	0.51499993	-0.54519993	0.32319990	0.00410000
60.	12.71600056	22.32619858	0.59460002	-0.57169992	0.26050001	-0.01000000
65.	13.41050053	22.20939827	0.54349995	-0.71069986	0.23400000	-0.03630000
70.	13.80980110	20.28750229	0.47319999	-0.77909988	0.28579980	-0.04480000
75.	14.16630077	18.24569893	0.35600001	-0.70935905	0.40140000	-0.04550000
80.	14.38930130	15.65240002	0.29990000	-0.52049994	0.57957298	-0.04060000
85.	14.55670071	12.64149857	0.34770003	-0.40490001	0.81050003	-0.04210000
90.	14.55000114	9.79939842	0.46530002	-0.34110001	0.96130002	-0.03950000
95.	14.50580025	7.11619949	0.57220000	-0.26019993	0.87829977	-0.03900000
100.	14.37669945	4.50419998	0.67280000	-0.17820001	0.46810001	-0.02999990
105.	14.14569950	2.12890005	0.79499203	-0.13319987	-0.12650000	-0.02320000
110.	13.80200100	0.22210902	0.72987193	-0.30799991	-0.71550000	-0.02550000
115.	13.40369892	-1.25679994	0.41880000	0.54929990	-1.27589965	-0.02520000
120.	12.54280090	-2.94979978	-0.02109990	0.22600010	-1.66909993	-0.02330000
125.	11.39980125	-3.81520033	-0.12930000	-0.05069977	-2.01510000	-0.02180000
130.	9.22459984	-4.53350019	0.19810000	-0.42919990	-2.28459978	-0.01540000
135.	7.21460056	-4.35540009	0.35130000	-0.69859993	-2.45499992	-0.00580000
140.	5.59809971	-3.53430009	0.29469991	-0.66960001	-2.57490015	0.00370000
145.	4.32369995	-2.76780033	0.44590002	-1.18159974	-2.65760016	0.01120000
150.	3.31050014	-1.85349965	0.45229992	-1.12610006	-2.71260023	0.01590000
155.	2.48720026	-1.05209982	0.43699992	-0.88689983	-2.71509981	0.00750000
160.	1.75830007	-0.47689989	0.29470000	0.12740001	-2.68499994	0.00300000
165.	1.18779993	0.03060000	0.09920000	0.26539999	-2.60580039	-0.00029060
170.	0.75779992	0.27869990	0.02360000	0.15810001	-2.53000021	-0.00120003
175.	0.39429981	0.40599990	0.01660000	0.08220001	-2.45459986	-0.00007770
180.	0.00580000	0.00940000	0.01070000	-0.04570000	-2.43340015	0.00000490

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.80
PHI= 315.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00100000	0.00010000	-0.04400000	0.03720000	0.91709977	-0.01380000
5.	0.44559988	0.10310001	-0.03199990	0.08750000	0.95260000	-0.01490000
10.	0.88979989	0.65910000	-0.04900000	0.03080000	1.00909984	-0.01600000
15.	1.46020019	1.53060007	-0.07339990	-0.05350000	1.07640004	-0.01890000
20.	2.15100026	2.84370017	-0.09779999	-0.10819990	1.09109986	-0.03260000
25.	3.01870012	4.62160015	-0.12250000	0.02630009	1.07690001	-0.03640000
30.	3.91719961	6.24409962	-0.14729900	0.19110000	1.02719975	-0.03950000
35.	4.89880037	8.97790051	-0.17209990	0.29640001	0.92409992	-0.04190000
40.	6.19290018	12.36270142	-0.18559991	0.38700002	0.78329992	-0.04420000
45.	8.11159992	16.37470055	-0.20479991	0.41290003	0.62269992	-0.04670000
50.	9.98449993	18.90199852	-0.22399980	0.39620000	0.46309990	-0.04880000
55.	11.55759907	20.58070374	-0.23969999	0.42320001	0.33389980	-0.05089990
60.	12.44060040	21.68850136	-0.24680001	0.53249991	0.26499990	-0.05310000
65.	13.14279938	21.68449974	-0.23569998	0.87629998	0.25040001	-0.05620000
70.	13.72830200	20.68150139	-0.21840003	0.76689982	0.30549991	-0.06470000
75.	14.26260090	19.18919945	-0.15709990	0.27930000	0.40450001	-0.07260000
80.	14.62419987	17.18879890	-0.01829991	-0.29439977	0.52179992	-0.07370000
85.	14.85820198	13.92929935	0.10930011	-0.46869999	0.81199992	-0.07490000
90.	14.93940067	10.91039848	0.22070011	-0.51149994	0.88129991	-0.07030000
95.	14.86509895	7.30119991	0.33199999	-0.53820008	0.72280002	-0.05610000
100.	14.58329964	4.24290037	0.48680001	-0.65528584	0.38459980	-0.04460000
105.	14.29409981	1.77050006	0.56885338	-0.80493510	-0.15040000	-0.03140000
110.	13.89690018	-0.34299999	0.61370713	-1.20196569	-0.75499993	-0.02460000
115.	13.39540195	-2.04299998	0.81339991	-1.41860056	-1.27360022	-0.01710000
120.	12.35670090	-3.62440038	0.74853504	-1.34960067	-1.60929990	-0.01320000
125.	11.50110054	-4.54890013	0.55980003	-0.95283365	-1.90339994	-0.00890000
130.	9.81629944	-5.13730049	0.57560003	-1.65033305	-2.17799997	-0.00180000
135.	8.07740021	-5.20710039	0.49270001	-2.00327292	-2.35930014	0.00480000
140.	6.32069969	-4.75409985	0.19840001	-1.71191251	-2.51620030	0.01140000
145.	4.79629993	-3.57950020	0.23030001	-1.65049994	-2.64979982	0.01850000
150.	3.49769998	-2.18960023	0.25479999	-1.34299946	-2.71120024	0.02380000
155.	2.53700018	-1.18040001	0.29510000	-0.93419993	-2.70240021	0.01940000
160.	1.74149990	-0.61830002	0.21849990	-0.39730000	-2.65539980	0.01390000
165.	1.03749990	-0.22639990	0.14770000	-0.38490000	-2.58279991	0.00960000
170.	0.70739990	0.10840000	0.07600003	-0.25329980	-2.50430012	0.00660000
175.	0.41090000	0.34249991	0.05430000	-0.08459999	-2.47030020	0.00350000
180.	0.10190000	0.13740000	0.02650000	-0.07780000	-2.43650007	0.00001900

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FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.80
PHI= 360.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00100000	0.00010000	-0.05460000	0.03720000	0.92119992	-0.01550000
5.	0.45059991	0.11560000	-0.03430000	0.05810000	0.97465991	-0.01500000
10.	0.93050003	0.70780003	-0.08830000	-0.04180000	1.06900001	-0.01510000
15.	1.47520018	1.67929995	-0.22200992	-0.12850000	1.06310010	-0.02620000
20.	2.17100024	3.26120019	-0.59070003	-0.20819990	1.04100002	-0.03460000
25.	3.04370022	5.44560051	-1.12649989	-0.09870000	0.99200000	-0.04170000
30.	4.55830002	9.28050041	-1.70330012	0.04977840	0.90639991	-0.04830000
35.	6.26670027	13.36890030	-2.30050039	0.23660851	0.80149990	-0.05800000
40.	7.97810030	17.20739937	-3.21149993	0.38033080	0.70130002	-0.06710000
45.	9.68089962	20.39159966	-3.47869992	0.47482330	0.57410002	-0.07539999
50.	11.21430016	22.64380074	-3.25549984	0.53181797	0.41939980	-0.08109999
55.	12.31890011	23.80559921	-2.82929993	0.54784602	0.27859980	-0.08180001
60.	12.99629974	24.15140152	-2.36069059	0.53010190	0.08184230	-0.08471240
65.	13.59319782	24.25270081	-2.15521002	0.35519800	0.00315770	-0.08753350
70.	13.99899960	23.41760254	-1.86100006	-0.19290000	0.04630000	-0.09230000
75.	14.34129906	21.50089836	-2.15689993	-1.18736982	0.17500000	-0.09450000
80.	14.59200001	19.15979958	-2.30200028	-1.64849985	0.45599991	-0.10249990
85.	14.79819965	15.93589878	-2.33472204	-2.10643768	0.65090181	-0.10204900
90.	14.94970036	12.37779999	-2.21239686	-2.20588970	0.91704023	-0.10159811
95.	14.99870014	8.49230003	-2.19094992	-1.81571054	0.66719651	-0.10225441
100.	14.85300064	5.06839943	-1.83333945	-1.19241226	0.23703960	-0.10013460
105.	14.56660175	1.33450007	-1.73069525	-0.61206883	-0.20301130	-0.08981000
110.	14.06590176	-1.17919993	-1.75520110	0.26800011	-0.77909982	-0.07874400
115.	13.42329979	-2.61949992	-1.98456085	0.23569286	-1.22044373	-0.06191820
120.	12.60449982	-3.55409980	-2.15704703	0.07380772	-1.61882710	-0.04995440
125.	11.67609978	-4.32390070	-2.54244733	0.04800045	-1.95792365	-0.04910440
130.	10.57840061	-4.60599947	-3.61935234	-1.68197525	-2.21014071	-0.04903840
135.	9.26560020	-4.29740047	-3.82231498	-2.25920010	-2.42659855	-0.03893840
140.	7.70280027	-3.30450010	-3.75600004	-1.72839987	-2.62400007	-0.02950000
145.	6.08150005	-2.08720016	-3.51472616	-1.00026238	-2.80752325	-0.02240380
150.	4.64080000	-1.00533982	-2.68349981	-0.79799998	-2.86470413	-0.00575200
155.	3.45369983	-0.25520003	-1.14080000	-1.22868443	-2.86263371	0.00003600
160.	2.43200016	0.34169990	-0.60133344	-1.07569075	-2.82359791	-0.00246000
165.	1.54480004	0.63939995	-0.25860000	-0.45529991	-2.74942470	-0.00092900
170.	0.88900000	0.61019993	-0.03847080	-0.14989330	-2.65224314	-0.00338670
175.	0.40750000	0.41960001	-0.09934101	-0.10579161	-2.52909732	-0.00365350
180.	0.06680000	0.09420000	0.00680000	-0.00346000	-2.43720007	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.90
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	0.00000000	-0.05460000	0.03720000	1.10409975	-0.00950000
5.	0.45059991	0.14079989	-0.04430000	0.00060000	1.11819994	-0.01120000
10.	0.89979994	0.76849985	-0.10249991	0.00320000	1.10099991	-0.01450000
15.	1.47520018	1.70539963	-0.25039980	-0.06100000	1.15190005	-0.01740000
20.	2.18140006	2.93120027	-0.55470002	-0.11819990	1.11949992	-0.02320000
25.	3.23190022	5.30799961	-0.95399988	0.01380000	1.07030010	-0.02770000
30.	4.89330006	10.03390026	-1.45380008	0.39989999	1.01719975	-0.03250000
35.	7.04509974	15.64900017	-2.14419985	0.99489993	0.94809991	-0.05300000
40.	9.09499931	19.73589706	-2.51290011	1.13199997	0.85819978	-0.06280000
45.	11.00450039	23.05210114	-2.53390002	0.62679968	0.72449982	-0.07491960
50.	12.33469963	25.02189636	-2.48560023	0.39170000	0.55830002	-0.08562390
55.	13.32520008	25.61689758	-2.22570014	0.25439999	0.37430000	-0.09466491
60.	13.99460030	25.37007523	-2.09466958	0.02199998	0.20670000	-0.10656530
65.	14.61129951	25.00810051	-1.90890014	-0.20121351	0.12799998	-0.11019990
70.	15.09360027	24.15430069	-1.84548533	-0.59089993	0.20840000	-0.11090000
75.	15.55399990	22.38710022	-1.84608912	-0.90071166	0.31318441	-0.11650340
80.	15.87099934	19.49839783	-1.81991100	-1.15273964	0.60179192	-0.12060480
85.	16.05809975	16.34020042	-1.78503115	-1.18085170	0.81621683	-0.12019040
90.	16.14100075	13.01459789	-1.70900059	-1.15614438	0.94914126	-0.11899991
95.	16.03250122	10.13250065	-1.55989993	-1.15500009	0.70560002	-0.11834280
100.	15.60139942	6.74450016	-1.50190008	-0.97400004	0.27139980	-0.11720001
105.	15.06259823	3.32839990	-1.45526707	0.04479992	-0.20629990	-0.11109990
110.	14.45070076	0.00000000	-1.42999995	0.28205001	-0.75014281	-0.10180000
115.	13.59390163	-2.03620005	-1.38999999	0.50649571	-1.26602364	-0.08908720
120.	12.90609932	-4.02600002	-1.17933333	1.10730004	-1.72920762	-0.07995050
125.	12.06260109	-5.04209948	-0.94252026	0.61060005	-2.07730018	-0.07011780
130.	11.15399933	-5.21140051	-1.70519459	-0.78549999	-2.32457709	-0.06920000
135.	9.85899925	-4.45450020	-2.28599882	-1.15211320	-2.56957603	-0.04992250
140.	8.45669937	-2.61299992	-2.63308239	-1.31719983	-2.76140118	-0.03616700
145.	6.98250008	-0.84509993	-2.34899998	-1.09749985	-2.94329977	-0.02500000
150.	5.38929987	0.88899939	-1.34206180	-0.65319991	-3.04919755	-0.00570300
155.	3.79130006	0.82629991	-1.22750008	-0.47359991	-3.05522346	0.00407690
160.	2.71409988	1.55760014	-0.52120870	-0.40679991	-3.01116490	0.00580000
165.	1.73789978	1.59450006	-0.19996250	-0.29779682	-2.90120077	0.00268170
170.	1.11570001	1.35380006	-0.04166770	-0.08419870	-2.80326200	-0.00182790
175.	0.53219992	0.97850001	-0.00840000	-0.04419690	-2.66309690	-0.00347660
180.	0.08470000	0.23699990	-0.00972000	-0.01270000	-2.53387000	-0.00002630

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FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.90
PHI= 45.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00100000	0.00000000	-0.05460000	0.02850000	1.02189994	-0.00980000
5.	0.46309990	0.06810000	-0.10430000	0.01560000	1.08589995	-0.01050000
10.	0.92479992	0.65750003	-0.20870000	-0.12680000	1.16899991	-0.01310000
15.	1.51270020	1.79849994	-0.41709980	-0.25600001	1.15190005	-0.01530000
20.	2.23140001	3.25470042	-0.35029989	-0.37819991	1.11949992	-0.02270000
25.	3.19299960	5.63570023	-0.17380001	-0.31120002	1.08349991	-0.03050000
30.	4.47509956	8.61170006	-0.23950002	-0.16800000	1.04609990	-0.05990000
35.	6.11920023	12.97559929	-0.62310004	0.04990000	0.98909992	-0.08400000
40.	7.74310017	16.89360046	-0.86210001	0.33559987	0.90670002	-0.11069990
45.	9.56259918	20.51169968	-0.61429995	0.61279988	0.78380001	-0.14260000
50.	11.16869926	22.99850082	-0.26980001	0.95079964	0.63349992	-0.18540001
55.	12.40629959	23.49882507	0.24069986	1.19260013	0.47929990	-0.22879590
60.	13.29589939	23.63050079	0.99089992	1.30320001	0.35090950	-0.27167690
65.	13.94149971	23.24000168	1.08233762	1.33522069	0.27639040	-0.28932300
70.	14.48430157	21.65930367	1.15192187	1.13708782	0.37191981	-0.30016202
75.	14.88279819	19.70130157	1.19057405	0.52569991	0.57990003	-0.30289990
80.	15.10230160	17.03010178	1.19490004	0.13410002	0.72649992	-0.31070000
85.	15.27290058	14.60169983	1.16205132	0.00099629	0.92561150	-0.31049961
90.	15.29240036	11.99620056	1.12641644	-0.13659787	0.94959992	-0.30814379
95.	15.12130070	8.89649963	1.08333695	-0.27114338	0.71085060	-0.30710000
100.	14.79649830	5.62220001	1.03220677	-0.14514500	0.30465940	-0.30349112
105.	14.37949848	1.76249993	0.95410055	0.41201985	-0.22800680	-0.29383461
110.	13.76159954	-1.95520960	0.93599445	0.74136871	-0.76199991	-0.27968761
115.	12.95700073	-3.92444754	0.85323405	0.96740001	-1.24782753	-0.26687601
120.	12.25579929	-4.98227501	0.97470003	1.23490000	-1.65161145	-0.24859999
125.	11.66390038	-5.19979954	0.81200004	1.09271657	-1.96501184	-0.22248000
130.	10.70510101	-4.85660028	0.00290000	0.92574376	-2.24937153	-0.19465199
135.	9.42649937	-4.42560053	-0.53452331	0.74972206	-2.48057842	-0.16986820
140.	7.69259977	-3.76789975	-0.79699993	0.51213974	-2.66710019	-0.14060000
145.	6.12320042	-2.49850011	-0.75590003	0.15549991	-2.92236567	-0.10050000
150.	4.65620041	-1.20769989	-0.78360003	-0.33740950	-3.04400826	-0.07294230
155.	3.33380008	-0.45729992	-0.75267100	-0.84161103	-3.06341171	-0.04621600
160.	2.29150009	0.16489990	-0.71429992	-0.70574540	-2.99830055	-0.02335930
165.	1.44079995	0.74169987	-0.35119981	-0.29225791	-2.88687801	-0.01350400
170.	0.85490000	0.90120000	-0.08910000	-0.19872311	-2.82305574	-0.00943250
175.	0.46770000	0.92869991	0.00169260	-0.09748460	-2.69393778	-0.00416620
180.	0.10930000	0.30809990	0.00100000	0.00380000	-2.53430080	-0.00000710

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FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.90
PHI= 90.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00100000	0.00000000	-0.04400000	0.03720000	1.10050011	-0.00950000
5.	0.47309989	0.10259999	-0.05949930	0.04310000	1.12030005	-0.01145000
10.	0.97549999	0.67129993	-0.10210000	-0.07180000	1.16899991	-0.01440000
15.	1.54270017	1.49660003	-0.14659989	-0.17350000	1.15190005	-0.01995000
20.	2.26100016	2.54229999	-0.20599991	-0.26819989	1.11949992	-0.02890000
25.	3.15620017	4.30569983	-0.27359989	-0.17370000	1.06710005	-0.02065000
30.	4.17270041	6.78739977	-0.34419999	-0.19210000	1.00079966	0.00570000
35.	5.55569983	10.51039982	-0.37899992	-0.17240000	0.92110002	0.00855000
40.	7.04220057	13.80579948	-0.39790002	-0.09540000	0.82089977	-0.00520000
45.	8.68950081	16.98679924	-0.36340001	-0.00360001	0.68929982	-0.02025000
50.	10.46020126	19.86769867	-0.30519990	-0.09750001	0.55049992	-0.02261300
55.	12.04860020	21.11640358	-0.39879981	-0.00580001	0.41009980	-0.02324770
60.	13.30749893	21.87200003	-0.36999992	-0.12990001	0.29041600	-0.02342000
65.	14.24409962	21.19052505	-0.32729980	-0.10146870	0.27260000	-0.02022110
70.	14.85000076	20.11599922	-0.28419989	-0.19850001	0.41280001	-0.02140003
75.	15.31769943	18.10210228	-0.25009990	-0.19520001	0.58990002	-0.02245000
80.	15.51320076	15.84029865	-0.21539991	-0.19580001	0.69999993	-0.02300000
85.	15.56079960	13.38350010	-0.19740000	-0.01700002	0.84470522	-0.02307690
90.	15.51060104	11.02820015	-0.20464100	0.15939999	0.97860003	-0.02410000
95.	15.37829876	7.70860052	-0.22294430	0.24139900	0.84684050	-0.02242330
100.	15.05440140	3.83390021	-0.24129599	0.46310002	0.44065791	-0.01715160
105.	14.64279938	1.41409993	-0.27618980	0.60989976	-0.15070000	-0.01502100
110.	14.10479927	-0.50759977	-0.34405401	0.56481612	-0.77090251	-0.01667590
115.	13.37090111	-2.24300003	-0.26403591	0.33600903	-1.28980003	-0.02607990
120.	12.43299961	-3.57169986	-0.29522800	0.20299970	-1.67740023	-0.03120390
125.	11.41359997	-4.90910053	-0.31586739	0.18487041	-2.02799988	-0.03743970
130.	10.22580051	-5.20149994	-0.27420962	0.56008291	-2.29336357	-0.03744400
135.	9.18050098	-4.77740002	-0.32910350	0.47479993	-2.52145052	-0.02538540
140.	7.46599960	-3.88410020	-0.39156732	0.30920002	-2.70550013	-0.02000000
145.	5.72869968	-2.70070004	-0.47025481	0.77303320	-2.88133860	-0.01306920
150.	4.34719944	-1.46750009	-0.54577428	0.72209990	-3.03117228	-0.01202000
155.	3.32200040	-0.40560001	-0.50170928	0.62703747	-3.07646489	-0.00918000
160.	2.33030009	0.29129991	-0.37704898	0.91440004	-3.05557990	-0.00354000
165.	1.49469995	0.91600001	-0.18560000	-0.11929990	-2.92669249	-0.00326720
170.	0.89059991	1.04800010	0.01237770	-0.13742010	-2.84185314	-0.00364010
175.	0.52629977	1.19989991	0.02053600	-0.12425570	-2.69010343	-0.00099550
180.	0.18820000	0.53059977	0.01559000	0.03207990	-2.53119969	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.90
PHI= 135.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00100000	0.00000000	-0.05460000	0.03720000	1.10260010	-0.01000000
5.	0.46309990	0.03410000	-0.04430000	0.10060000	1.11609995	-0.01005000
10.	0.95550001	0.77300000	-0.10830001	0.04320000	1.16899991	-0.01770000
15.	1.51270020	1.74289966	-0.23709980	-0.00100000	1.15190005	-0.02305000
20.	2.22100019	3.04900002	-0.10510000	-0.03819990	1.12399995	-0.01610000
25.	3.10620022	5.10179996	0.12620001	-0.13409999	1.09910011	0.01425000
30.	4.47739983	8.39660072	0.35730001	-0.32299978	1.05259991	0.04990000
35.	6.14529991	12.42840004	0.58269984	-0.49169981	0.97609991	0.09045000
40.	7.77480030	16.39099884	0.64979994	-0.66159988	0.85969998	0.12809998
45.	9.79570007	20.29130173	0.29920000	-0.91860002	0.72990000	0.15085000
50.	11.50200081	22.55699921	0.03430021	-1.15289998	0.58990002	0.19560000
55.	12.55680180	23.39429855	-0.61579984	-1.32940006	0.45590001	0.21285000
60.	13.31170082	23.25259781	-1.39490008	-1.66259980	0.33749980	0.23350002
65.	13.89430046	22.99100113	-1.59889984	-1.91589999	0.30379990	0.24554990
70.	14.37709904	21.49900055	-1.71030009	-1.82650018	0.39099991	0.25559991
75.	14.73409939	19.14329910	-1.74960017	-1.90760028	0.50080001	0.28174990
80.	14.96509933	16.87540054	-1.75769997	-1.60119998	0.64310002	0.29620001
85.	15.08799934	14.79479980	-1.69139981	-1.38139999	0.79359990	0.29815000
90.	15.13489914	12.85809975	-1.59660006	-1.35459983	0.81229991	0.30059990
95.	14.89240074	8.76180077	-1.46189988	-1.16639984	0.67820001	0.29585001
100.	14.48580074	5.50419998	-1.25220001	-1.06899989	0.30430001	0.30180001
105.	13.96419811	2.39620018	-1.01569986	-1.17540002	-0.23819990	0.30199981
110.	13.41480160	-0.32889980	-0.83760005	-1.57470012	-0.83429992	0.30949992
115.	12.76520061	-2.50339985	-0.62759995	-1.60650003	-1.32579994	0.28390002
120.	12.32490063	-3.71540022	-0.40990001	-1.86469989	-1.65329993	0.25510001
125.	11.88489914	-4.49542809	-0.17859977	-0.38489977	-2.00379992	0.22850001
130.	10.86230087	-4.55250025	0.57780004	0.32170001	-2.30840039	0.18360001
135.	9.41790104	-4.31300020	1.51819992	0.78770000	-2.56180000	0.11779990
140.	7.57039976	-4.06550026	1.12079990	1.02159989	-2.77400017	0.07690000
145.	5.77420044	-3.07782650	0.76979983	1.23989999	-2.98140001	0.06620000
150.	4.51640034	-1.54029989	1.11919999	2.42569971	-3.12179995	0.05273840
155.	3.41580009	-0.15000001	0.97890002	3.38459992	-3.11069989	0.02610000
160.	2.45819998	1.19214940	0.08690000	1.75070000	-3.03189993	0.00380000
165.	1.48370004	1.69033015	-0.32069990	0.28029999	-2.92229986	-0.01500000
170.	0.91869992	1.70413876	-0.49389979	-0.12969990	-2.81239986	0.01150000
175.	0.45559990	1.23731685	-0.36390001	0.00320000	-2.65250039	0.00160000
180.	0.11090000	0.05264640	-0.01720000	0.10560000	-2.53789330	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.90
PHI= 180.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00100000	0.00000000	-0.05460000	0.03720000	1.10029995	-0.00950000
5.	0.45059991	0.10100000	-0.10430000	0.03560000	1.11430001	-0.01270000
10.	0.89979994	0.74579984	-0.22830001	-0.00680000	1.16899991	-0.01750000
15.	1.47520018	1.66830003	-0.41709980	-0.19600001	1.15190005	-0.02190000
20.	2.17100024	2.94450021	-0.22149999	-0.29570001	1.12069964	-0.03150000
25.	3.04370022	5.03929996	-0.17380001	-0.21120000	1.06489992	-0.03190000
30.	4.42490005	8.97049999	0.48479992	-1.20140004	0.99800003	-0.02100000
35.	6.25650024	13.90909958	1.63089991	-1.77620006	0.91209990	-0.00380000
40.	8.74209976	19.40810013	1.92639995	-2.06879997	0.81649983	0.00990000
45.	10.73370075	22.62070084	1.52409995	-2.02480006	0.70999992	0.02290000
50.	12.00769997	24.56110001	1.54670000	-1.52429998	0.58249992	0.02090000
55.	12.99100018	24.83422089	1.61089981	-0.93010002	0.41429991	0.01810000
60.	13.77440071	25.10949898	1.60684669	-0.48789990	0.25900000	0.01360000
65.	14.41880035	25.03759766	1.59363616	-0.45690000	0.21489990	0.00849130
70.	14.97290039	23.96200180	1.57165229	-0.38240001	0.30350000	0.00510430
75.	15.45750046	22.24869919	1.54200006	-0.30519998	0.48289990	0.00245210
80.	15.83189869	19.45039749	1.51200008	-0.35649997	0.70980000	-0.00070000
85.	16.15350151	16.63789940	1.48166692	-0.32510000	0.90109992	-0.00260000
90.	16.29089928	13.94560051	1.43666649	-0.24679998	0.90619987	-0.00510000
95.	16.13780022	10.19959331	1.39036345	-0.22390008	0.65730000	-0.00800000
100.	15.78079987	6.43070030	1.33741868	-0.32464570	0.25549990	-0.01400000
105.	15.31749916	3.38459992	1.27335966	-0.43998408	-0.28430000	-0.02070000
110.	14.74489975	0.36759990	1.22455966	-0.71653450	-0.78340000	-0.02680000
115.	14.02599907	-2.44900001	1.16587770	-0.89589995	-1.23270011	-0.03000000
120.	13.40180016	-4.17179966	0.95053363	-1.34182608	-1.64369965	-0.03000000
125.	12.60320091	-5.25410032	0.75608623	-0.47219998	-2.01700020	-0.01920000
130.	11.51339912	-5.50810051	1.75999987	0.46119976	-2.32499981	-0.01050000
135.	10.01320076	-4.63840008	2.58920026	0.67399979	-2.57660007	-0.00120000
140.	8.50629997	-2.82880020	3.24310040	1.01550007	-2.80609989	0.00940000
145.	6.99930000	-1.25999987	2.68859017	1.07589984	-2.97840023	0.01783000
150.	5.31350040	-0.10830002	1.87199998	0.28640002	-3.07760000	0.02230000
155.	3.71099997	0.61290002	1.48260009	0.81320000	-3.08010006	0.01620000
160.	2.58379984	1.41299987	0.86380005	1.52220011	-3.00969982	0.00710000
165.	1.72969973	1.56469989	0.28479999	0.74209994	-2.89849997	0.00010000
170.	1.06900001	1.31030011	0.05089990	-0.02280000	-2.78189993	-0.00380000
175.	0.58560002	1.14839995	0.06840000	0.04410000	-2.66260004	-0.01180000
180.	0.12570000	0.09373780	0.01976360	0.01696770	-2.53160000	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.90
PHI= 225.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00100000	0.00000000	-0.04400000	0.03720000	1.10109985	-0.00950000
5.	0.47309989	0.01180000	-0.08340000	0.07750000	1.15359986	-0.01235000
10.	0.94479990	0.59009993	-0.19490001	0.01080000	1.24839985	-0.01680000
15.	1.54270017	1.53369975	-0.26770002	-0.08350000	1.24309993	-0.02085000
20.	2.26100016	2.78729987	-0.22080000	-0.14819990	1.22350001	-0.03010000
25.	3.15620017	5.21939993	-0.01130000	-0.15310000	1.17829990	-0.03015000
30.	4.41809988	8.86439991	-0.10760000	-0.14940000	1.09809983	-0.02952300
35.	5.77730036	12.90649986	-0.25319979	-0.14090002	0.99290001	-0.02816320
40.	7.36850023	16.97109985	-0.39960000	-0.13109991	0.85879987	-0.02610000
45.	9.62610054	21.45249748	-0.43079999	-0.12289999	0.76670003	-0.02245000
50.	11.51169968	23.88809776	-0.43700001	-0.13699999	0.62430000	-0.01780000
55.	12.94559956	24.04799843	-0.41720000	-0.17450000	0.47790000	-0.01245000
60.	13.77730179	23.48589516	-0.29999980	-0.37299991	0.39600000	-0.00460000
65.	14.46060181	22.54540634	-0.08290000	-0.36830002	0.36289990	-0.00265000
70.	14.99380016	20.85360336	0.02350000	-0.24149999	0.51940000	0.00000000
75.	15.50920010	19.09219933	0.11400000	-0.07369979	0.61299992	0.00255000
80.	15.95700073	16.70630074	0.19130000	0.28780001	0.70620000	0.00500000
85.	16.22130013	14.58089924	0.26670000	0.61879992	0.91849983	0.00895000
90.	16.30570221	11.83990002	0.33589992	0.88119996	0.89590001	-0.00400000
95.	16.20979881	8.76650047	0.40530002	1.09340000	0.66540003	-0.00505000
100.	15.87589931	5.63279963	0.47490001	1.27609992	0.29729980	-0.00720000
105.	15.41869926	2.99660039	0.55500001	1.41989982	-0.23580000	-0.00910000
110.	14.81190014	0.30423641	0.65859985	1.48239982	-0.83539993	-0.01290000
115.	14.08380127	-2.02740002	0.55650002	1.45860004	-1.35529995	-0.02370000
120.	13.13250065	-3.60310006	0.56520003	1.24860001	-1.76760006	-0.03200000
125.	12.13790035	-4.17750025	0.48909980	0.87149984	-2.08930016	-0.03840000
130.	10.96620178	-4.66879082	0.34920001	0.09639990	-2.34730005	-0.04052450
135.	9.68629932	-4.31650019	0.28619999	-0.24780001	-2.58949995	-0.04000000
140.	7.81560040	-3.66740012	0.21380000	-0.16320001	-2.79659986	-0.03942240
145.	5.77779961	-2.92450023	0.15090001	-0.43171000	-2.98140001	-0.03333330
150.	4.43690014	-2.11380005	-0.00609991	-0.21571000	-3.12180018	-0.02630000
155.	3.24250031	-1.08389997	-0.03180000	0.36800009	-3.11070037	-0.02180000
160.	2.21419978	-0.20609991	0.02070010	0.10450000	-3.03189993	-0.01650000
165.	1.49299991	0.62220001	0.21529999	0.27729991	-2.92229986	-0.01210000
170.	0.98439991	0.98940003	0.09970000	0.39429989	-2.81241536	-0.00683330
175.	0.56980002	0.96379977	0.07150000	0.32310000	-2.65247202	-0.00334990
180.	0.16540000	0.03181690	0.03720000	0.00550000	-2.53790021	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.90
PHI= 270.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00100000	0.00000000	-0.04400000	0.03720000	1.11069965	-0.00950000
5.	0.47309989	0.10829990	-0.08550000	0.07310000	1.16260004	-0.00840000
10.	0.97549999	0.70639980	-0.19110000	0.01000000	1.25729990	0.00330000
15.	1.54270017	1.47810006	-0.26770002	-0.08059999	1.25199986	0.00760000
20.	2.26100016	2.54229999	-0.22119990	-0.17800000	1.23249996	0.01080000
25.	3.15620017	4.38180017	-0.17379990	-0.30349991	1.18280005	0.01123750
30.	4.53130007	7.67670012	-0.13620000	-0.40529990	1.10850000	0.01167140
35.	6.09320021	11.71880054	-0.08400000	-0.46190003	0.99689990	0.01210000
40.	7.79059982	15.32860184	-0.04420000	-0.50370002	0.87759990	0.01400000
45.	9.87470055	19.50369835	-0.02120000	-0.59949988	0.73819977	0.01560000
50.	11.75940132	21.19799805	0.00300000	-0.69350004	0.64600003	0.01680000
55.	12.96330070	22.34889793	0.02580000	-0.74989980	0.52829993	0.01560000
60.	13.83269978	22.48670006	0.04850000	-0.77329999	0.42940000	0.01250000
65.	14.49230099	22.30020142	0.07200000	-0.78889978	0.28839990	0.00450000
70.	14.96879959	21.54450035	0.09670001	-0.74389994	0.33090001	-0.00420000
75.	15.42210007	19.54170227	0.12390000	-0.66559989	0.46689990	-0.01150000
80.	15.73399925	16.84210014	0.15370001	-0.55890000	0.64670002	-0.01810000
85.	15.99179935	13.97359943	0.18350001	-0.40919980	0.92429990	-0.02330000
90.	16.13570023	11.31540203	0.18740000	-0.35886201	0.96469992	-0.02310850
95.	15.94359779	7.64109945	0.21020000	-0.31899989	0.84329993	-0.02090000
100.	15.62709904	4.01639986	0.19809990	-0.28880769	0.41540000	-0.01920000
105.	15.16209984	1.11219978	0.18486530	-0.27048361	-0.19409990	-0.01940000
110.	14.55620193	-0.87370002	0.21399991	-0.30202901	-0.79890001	-0.02340000
115.	13.82870007	-2.32149982	0.16489990	-0.26345932	-1.34619975	-0.02870000
120.	12.90840054	-3.69989991	0.29240000	-0.27145141	-1.76580000	-0.03350000
125.	11.88020039	-4.66620064	0.34770000	-0.30259989	-2.07310009	-0.02850000
130.	10.66079998	-5.52569962	0.34790000	-0.76196033	-2.31309986	-0.02090000
135.	9.32730007	-5.17590046	0.43910000	-0.69240674	-2.56349993	-0.01240000
140.	7.53610039	-4.00429964	0.50510001	-0.57565439	-2.77179980	0.00070000
145.	5.62709999	-2.72869992	0.58919990	-0.85890001	-2.96220040	0.00890000
150.	4.01399994	-1.42849982	0.67499989	-0.60229993	-3.09959984	0.01088510
155.	2.93550014	-0.52309990	0.60560000	0.42549998	-3.10769987	0.00330000
160.	2.00409961	0.18740001	0.46210000	0.18580009	-2.95780015	-0.00140000
165.	1.27569985	0.75049990	0.25580001	0.09050000	-2.78319979	-0.00030000
170.	0.73029977	0.84140003	0.02250000	0.12210000	-2.66419983	0.00000000
175.	0.33759990	0.74479991	0.00410000	0.10450000	-2.57160020	-0.00050000
180.	0.00620000	0.22720000	0.02200000	-0.01940000	-2.53392720	0.00000660

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.90
PHI= 315.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00100000	0.00000000	-0.05460000	0.03720000	1.10139990	-0.00950000
5.	0.47309999	0.05720000	-0.11980000	0.00870000	1.16599965	-0.00840000
10.	0.94479990	0.65249985	-0.24919981	-0.11359990	1.20549965	-0.00560000
15.	1.54270017	1.53369975	-0.44910002	-0.26799992	1.20599985	-0.00530000
20.	2.27139997	2.77660012	-0.39059991	-0.39279979	1.18569994	-0.00533260
25.	3.15620017	5.14330101	-0.44420001	-0.32829991	1.14450002	-0.00570000
30.	4.51820040	8.71900082	-0.52499992	-0.24059990	1.08680010	-0.00530000
35.	6.01000023	12.71749973	-0.60129994	-0.17750001	1.00230002	-0.00520000
40.	7.70200014	16.67110062	-0.67589992	-0.19940002	0.89590001	-0.00570000
45.	9.94009972	21.20630074	-0.75329983	-0.44959992	0.77249992	-0.00780000
50.	11.59589863	22.68679810	-0.80279994	-0.74179995	0.60380000	-0.00970000
55.	12.99039936	23.02951622	-0.86120003	-0.86030000	0.51699990	-0.01400000
60.	14.01139927	23.12220192	-0.91550004	-0.90379995	0.42119980	-0.01960000
65.	14.75960064	22.63650131	-0.94364816	-0.91399986	0.34119990	-0.02820000
70.	15.37089957	21.03700066	-0.98330003	-0.74099994	0.44299990	-0.03520000
75.	15.80430126	18.89640045	-0.99239991	-0.88999999	0.56709993	-0.04270000
80.	16.04769897	16.90369987	-0.91043999	-1.16419995	0.73199983	-0.05030000
85.	16.09569931	14.08990002	-0.84809989	-1.33609986	0.93809992	-0.05610000
90.	16.05380058	11.25310135	-0.79809976	-1.53719997	0.91789991	-0.05584520
95.	15.93580055	7.92640066	-0.75689989	-1.60619998	0.69379991	-0.04700000
100.	15.60749912	5.16210032	-0.66529989	-1.71809983	0.29979980	-0.03320000
105.	15.18009949	2.57800031	-0.56320000	-1.89450002	-0.24259998	-0.02560000
110.	14.58759975	-0.18925451	-0.57110000	-1.98570013	-0.82239991	-0.02150000
115.	13.88760185	-2.08179998	-0.54519981	-2.04809999	-1.33859992	-0.02420000
120.	13.05289936	-4.12970018	-0.22669980	-2.16560006	-1.71700001	-0.02120000
125.	12.05180073	-4.87129974	-0.02110000	-2.23289990	-2.05240011	-0.01720000
130.	10.89040184	-4.97719955	-0.08379990	-2.34850001	-2.29010010	-0.01410000
135.	9.48790073	-4.89500046	-0.01809990	-1.92760003	-2.48439980	-0.00920000
140.	7.46170092	-4.58059978	-0.00929990	-1.69600010	-2.67829990	-0.01230000
145.	5.49179935	-3.64200020	0.03740001	-2.12730002	-2.89919996	-0.01970000
150.	4.08360004	-2.30879974	0.12239990	-2.13280034	-3.09499979	-0.02050000
155.	2.85140014	-0.87909991	0.14090019	-1.01749992	-3.15950012	-0.03425000
160.	1.93429971	-0.09770000	0.08059999	-1.05109990	-3.01289988	-0.03610000
165.	1.14499974	0.36489990	-0.04909991	-0.82399994	-2.78325748	-0.03180000
170.	0.61860001	0.64069992	-0.18770000	-0.49579993	-2.61588669	-0.02291540
175.	0.32069990	0.60140002	-0.12070000	-0.95410000	-2.55749702	-0.01334400
180.	0.10190000	0.23269230	-0.04780000	-0.01470000	-2.53496242	0.00000000

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FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.90
PHI= 360.

ALPHA	CN	CM	CY	CYM	CA	CL
0.	0.00000000	0.00000000	-0.05460000	0.03720000	1.10409975	-0.00950000
5.	0.45059991	0.14079989	-0.04430000	0.00860000	1.11819994	-0.01120000
10.	0.89979994	0.76849985	-0.10249991	0.00320000	1.16899991	-0.01450000
15.	1.47520018	1.70539963	-0.25039980	-0.06100000	1.15190005	-0.01740000
20.	2.18140006	2.93120027	-0.55470002	-0.11819990	1.11949992	-0.02320000
25.	3.23190022	5.30799961	-0.95399988	0.01380000	1.07030010	-0.02770000
30.	4.89330006	10.03390026	-1.45380008	0.39989999	1.01719975	-0.03250000
35.	7.04509974	15.64900017	-2.14419985	0.99489993	0.94809991	-0.05380000
40.	9.09499931	19.73589706	-2.51290011	1.13199997	0.85819978	-0.06280000
45.	11.00450039	23.05210114	-2.53390002	0.62679988	0.72449982	-0.07491960
50.	12.33469963	25.02189636	-2.48560023	0.39170000	0.55830002	-0.08562390
55.	13.32520008	25.61689758	-2.22570014	0.25439999	0.37430000	-0.09466401
60.	13.99460030	25.37007523	-2.09466958	0.02199998	0.20670000	-0.10656530
65.	14.61129951	25.00810051	-1.90890014	-0.20121351	0.12799990	-0.11019990
70.	15.09360027	24.15430069	-1.84548533	-0.59009993	0.20840000	-0.11090000
75.	15.55399990	22.38710022	-1.84608912	-0.90071166	0.31318441	-0.11650340
80.	15.87099934	19.49839783	-1.81991100	-1.15273964	0.60179192	-0.12060480
85.	16.05809975	16.34020042	-1.78508115	-1.18085170	0.81621683	-0.12019040
90.	16.14100075	13.01459789	-1.70900059	-1.15614438	0.94914120	-0.11899991
95.	16.03250122	10.1325 065	-1.55989993	-1.15500009	0.78560002	-0.11834280
100.	15.60139942	6.74450016	-1.50190008	-0.97400004	0.27139980	-0.11720001
105.	15.06259823	3.32839990	-1.45526707	-0.84479992	-0.20629990	-0.11109990
110.	14.45070076	0.00000000	-1.42999995	0.28205001	-0.75014281	-0.10180000
115.	13.59390163	-2.03620005	-1.38999999	0.50649571	-1.26602364	-0.08988720
120.	12.90609932	-4.02600002	-1.17933333	1.10730004	-1.72928762	-0.07995050
125.	12.06260109	-5.04209948	-0.94252026	0.61060005	-2.07738018	-0.07811780
130.	11.15399933	-5.21140051	-1.70519459	-0.78549999	-2.32457709	-0.06920000
135.	9.85899925	-4.45450020	-2.28599882	-1.15211320	-2.56957603	-0.04992250
140.	8.45669937	-2.61299992	-2.63308239	-1.31719983	-2.76140118	-0.03616700
145.	6.98250008	-0.84509993	-2.34899998	-1.09749985	-2.94329977	-0.02500000
150.	5.38929967	0.08099999	-1.34209180	-0.65319991	-3.04910755	-0 90570380
155.	3.79130006	0.82629991	-1.22750008	-0.47359991	-3.05522346	0.00407690
160.	2.71409988	1.55760014	-0.52120870	-0.40679991	-3.01116490	0.00580000
165.	1.73789978	1.59450006	-0.19996250	-0.29779682	-2.90120077	0.00268170
170.	1.11570001	1.35380006	-0.04166770	-0.00419870	-2.80326200	-0.00182790
175.	0.53219992	0.97850001	-0.00840000	-0.04419690	-2.66309690	-0.00347660
180.	0.08470000	0.23699990	-0.00972000	-0.01278000	-2.53387880	-0.00002630

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.95
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00086003	-0.00454420	-0.05461383	0.03720890	1.18606734	-0.01093557
5.	0.45061320	0.13549989	-0.04181334	0.00812667	1.21968019	-0.01031317
10.	0.89980406	0.84601200	-0.00964263	0.02573207	1.28035438	-0.01325150
15.	1.47521043	1.93881726	-0.24256855	-0.03851102	1.26154625	-0.01741397
20.	2.17793703	3.56027317	-0.53299856	-0.00213230	1.23195970	-0.02390547
25.	3.16917610	6.03067064	-0.91529661	0.05127747	1.17569411	-0.02980320
30.	4.75071287	10.27920246	-1.38826668	0.37176350	1.11462998	-0.03702954
35.	6.84745455	15.10906124	-1.97367597	0.82514262	1.02453542	-0.05462920
40.	8.93664360	18.88421822	-2.28499579	0.97950751	0.91749650	-0.06319723
45.	10.85034847	21.98467827	-2.31654692	0.72002715	0.77634728	-0.06730942
50.	12.39051342	24.18056870	-2.23233342	0.44176668	0.63543338	-0.09517413
55.	13.67398071	25.14915848	-2.05486655	0.32514447	0.46510005	-0.10424978
60.	14.50507736	25.37991333	-1.96460950	0.07452154	0.31617939	-0.11639911
65.	15.26996329	25.21690369	-1.82219279	-0.15347663	0.25074041	-0.12213943
70.	15.88278484	24.51171684	-1.75852084	-0.62122077	0.29635429	-0.12550510
75.	16.44840240	22.53043747	-1.72253227	-0.83847493	0.45400017	-0.13277905
80.	17.01290703	19.96604347	-1.67690396	-1.06362236	0.70519376	-0.14004274
85.	17.36057854	16.97724533	-1.61225152	-1.11830091	0.83849835	-0.14052099
90.	17.41836166	13.89437294	-1.52629149	-1.08441436	0.87213957	-0.13928628
95.	17.21989441	11.12550640	-1.40451705	-1.07021439	0.58652502	-0.13854738
100.	16.68350220	7.88057995	-1.36985910	-0.93670142	0.15657014	-0.13658828
105.	15.99767685	4.35236216	-1.42137396	-0.16664445	-0.30678526	-0.12593190
110.	15.29170227	1.11168253	-1.41511166	0.17988759	-0.83297062	-0.11655111
115.	14.42372704	-1.14617884	-1.41237938	0.91354859	-1.33390164	-0.10316270
120.	13.58332634	-3.13944983	-1.40645254	1.00162280	-1.77716446	-0.09230017
125.	12.58082485	-4.33525562	-1.37917376	0.93229014	-2.11437178	-0.08918424
130.	11.43644905	-4.74140549	-1.38324022	-0.19770002	-2.36438203	-0.07987110
135.	10.08640575	-4.37101555	-1.51585591	-0.63718492	-2.61730409	-0.06139484
140.	8.45306301	-3.14936662	-1.75437963	-1.04300213	-2.82775378	-0.04536100
145.	6.69793653	-1.83236933	-1.70837498	-0.92737222	-3.03335667	-0.03199630
150.	5.16185760	-0.78236622	-1.01817214	-0.75964993	-3.15182018	-0.01252784
155.	3.86779904	0.32758379	-0.56296599	-0.51578325	-3.17175484	-0.00045617
160.	2.82450819	1.38374889	-0.22240651	-0.26321244	-3.14500046	0.00234423
165.	1.81581986	1.51509011	0.04443610	0.30954239	-3.06708717	-0.00193844
170.	1.13648355	1.30443466	0.02560759	0.10191457	-2.96713805	-0.00333773
175.	0.53599972	0.95415729	-0.02063501	0.03356862	-2.83102846	-0.00322800
180.	0.07874337	0.20125216	-0.00958500	-0.02113500	-2.69980931	-0.00002150

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.95
PHI= 45.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00099337	-0.00014817	-0.05461383	0.02852703	1.13173091	-0.01013890
5.	0.46311319	0.13378321	-0.10681334	0.04562667	1.20297587	-0.01050000
10.	0.92480403	0.72217160	-0.22026597	-0.05926793	1.28114545	-0.01235260
15.	1.51271045	1.87183595	-0.38319036	-0.16601104	1.26430130	-0.01531397
20.	2.22793698	3.38212872	-0.31738192	-0.25822273	1.23024035	-0.02414730
25.	3.16407561	5.77806997	-0.18631110	-0.16122253	1.18710458	-0.03495624
30.	4.48124552	8.84734154	-0.19519950	-0.00963918	1.13347590	-0.06091680
35.	6.27810955	12.75387478	-0.48681474	0.20700629	1.04921275	-0.08356210
40.	8.80424099	16.38971710	-0.70659977	0.47000286	0.93485808	-0.11079947
45.	9.87332344	19.79069328	-0.55640078	0.72967046	0.80472571	-0.13910380
50.	11.37271404	22.17162514	-0.13386658	1.17202199	0.70765555	-0.17706667
55.	12.76585197	22.97760773	0.29873332	1.40893340	0.57296664	-0.22193013
60.	13.77804756	23.26960564	0.91032219	1.53820276	0.46542501	-0.26169959
65.	14.51806831	23.02575684	1.01122916	1.59983814	0.39809072	-0.27898836
70.	15.17464828	21.66053200	1.09740508	1.38155639	0.47384509	-0.[illegible]929222
75.	15.66745853	19.87407875	1.12494648	0.95658493	0.68564361	-0.29204294
80.	15.99395180	17.47383690	1.12761748	0.66272289	0.81608874	-0.30003303
85.	16.22349358	15.13486385	1.10309541	0.60842508	0.93113077	-0.30109799
90.	16.29942703	12.59566975	1.06774032	0.56267357	0.88527071	-0.29918268
95.	16.18568230	9.66778088	1.02419508	0.49869570	0.60436207	-0.29815066
100.	15.88627911	6.58822060	0.96956086	0.62713879	0.18622942	-0.29480064
105.	15.39304447	3.13771343	0.96267819	1.05932021	-0.32395843	-0.29176372
110.	14.74704552	-0.37384236	0.90404016	1.20204294	-0.84723836	-0.27363077
115.	14.00217628	-2.52530861	0.89809048	1.34275579	-1.30608809	-0.26087469
120.	13.28862953	-3.90853286	0.79813194	1.44573855	-1.70465338	-0.24281977
125.	12.56594276	-4.92324543	0.65509558	1.33585024	-2.02223134	-0.21724790
130.	11.44706917	-5.25897694	0.07078445	1.24635625	-2.30900002	-0.19065376
135.	10.06634903	-5.11866474	-0.20749584	1.07344961	-2.54786682	-0.16587080
140.	8.22803593	-4.48200941	-0.50722742	0.79039764	-2.74561858	-0.13831110
145.	6.54486895	-3.23317409	-0.68074667	0.37895745	-3.01046729	-0.10227980
150.	4.90213728	-1.79175735	-0.68864757	-0.11565708	-3.14728117	-0.07408170
155.	3.43926311	-0.92512167	-0.54431903	-0.64743322	-3.18472576	-0.04693990
160.	2.22375774	0.11064445	-0.31460622	-0.72828406	-3.13922143	-0.02435960
165.	1.45361769	0.64607275	-0.23434561	-0.44634348	-3.04855132	-0.01360530
170.	0.85512692	0.82233632	-0.00933102	-0.19151041	-2.97731423	-0.00916313
175.	0.48409051	0.78060240	0.05405457	-0.10999572	-2.85507321	-0.00432283
180.	0.11300014	0.24647468	0.00005500	-0.00544500	-2.70012140	-0.00000750

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.95
PHI= 90.

ALFHA	CN	CM	CY	CYM	CA	CR
0.	0.00099337	-0.00454420	-0.04403033	0.03720890	1.18434954	-0.00996550
5.	0.48811319	0.19553995	-0.06452377	0.05870833	1.21902490	-0.01120538
10.	0.99556750	0.87672472	-0.11184703	-0.03770673	1.28050339	-0.01364950
15.	1.58771050	1.85679185	-0.16040391	-0.12851103	1.26130378	-0.01996397
20.	2.32448316	3.14766359	-0.22397363	-0.20822273	1.22820497	-0.02841583
25.	3.27046084	5.12295580	-0.28685629	-0.09872253	1.16996312	-0.02975480
30.	4.42627954	7.87357283	-0.34722990	-0.06314982	1.10083139	-0.00830171
35.	5.93077564	11.62245083	-0.37896761	0.01381930	0.99894398	-0.00010537
40.	7.58636379	14.91915035	-0.40010551	0.06117462	0.86507517	-0.01770921
45.	9.35844803	17.95238113	-0.38554242	0.13023670	0.72649646	-0.02675584
50.	11.27978706	20.53596306	-0.39973328	0.03716666	0.66356665	-0.02335870
55.	12.87172794	21.87029648	-0.41728875	0.06217776	0.51761085	-0.02426997
60.	14.14461422	22.58615303	-0.39335677	0.04743240	0.40209270	-0.02470893
65.	15.15824509	22.01235962	-0.36229220	0.09121950	0.37480420	-0.02260680
70.	15.90057659	20.88607869	-0.32240877	0.03637791	0.48629332	-0.02367377
75.	16.55900192	19.11164474	-0.30306843	0.05390624	0.65687436	-0.02477703
80.	16.94433594	16.92548561	-0.28957310	0.06649661	0.78742218	-0.02619040
85.	17.14107513	14.53972435	-0.27779183	0.21707673	0.87058151	-0.02650793
90.	17.14174461	12.14672184	-0.28171510	0.37398604	0.90621752	-0.02691663
95.	16.90485191	9.01818752	-0.30347100	0.44263741	0.71868718	-0.02362103
100.	16.47668839	5.60809994	-0.32416970	0.61829531	0.32133710	-0.01949610
105.	15.96186161	2.56354284	-0.34434760	0.74249631	-0.24214354	-0.01775663
110.	15.38486958	0.03543338	-0.36510864	0.67973942	-0.83317262	-0.01898863
115.	14.50667953	-1.95778465	-0.39224604	0.55652875	-1.34494114	-0.02688170
120.	13.53593445	-3.43616962	-0.34946594	0.41988829	-1.72872734	-0.03165063
125.	12.44186592	-4.69300652	-0.33272356	0.31753370	-2.07101321	-0.03707530
130.	11.29321384	-5.87202625	-0.37300107	0.35348848	-2.34230161	-0.03716493
135.	10.07487583	-4.85228920	-0.39233479	0.30933329	-2.57340431	-0.02710250
140.	8.28454781	-4.30053949	-0.43810108	0.28837779	-2.77639413	-0.02156143
145.	6.34913397	-3.18071117	-0.48333755	0.59992492	-2.98097301	-0.01402027
150.	4.56878614	-1.89883661	-0.46430570	0.81412488	-3.14070439	-0.01231500
155.	3.30031061	-0.84080410	-0.44249076	1.27941132	-3.19966292	-0.00988500
160.	2.26301742	0.07239247	-0.47316149	0.87847483	-3.18945360	-0.00459103
165.	1.49691927	0.72767496	-0.55502391	-0.57899451	-3.09082246	-0.00270797
170.	0.93086445	0.87212574	-0.14170595	-0.19138536	-2.99767995	-0.00358643
175.	0.51891863	0.91625863	0.02862700	-0.07849848	-2.85702229	-0.00122267
180.	0.16994886	0.35456419	0.01566750	0.02713493	-2.69888616	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.95
PHI= 135.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00099337	0.00576204	-0.05461383	0.03432703	1.18574476	-0.01066070
5.	0.46311319	0.18440665	-0.03605717	0.07062667	1.22698689	-0.01007157
10.	0.94527078	0.98388821	-0.10333264	-0.01680736	1.20027725	-0.01178866
15.	1.51271045	2.06517410	-0.22961789	-0.09101103	1.26311672	-0.01145659
20.	2.22100377	3.53450274	-0.09511897	-0.15822273	1.23523402	-0.00116159
25.	3.16325021	5.70754194	0.13868889	-0.20148918	1.19826221	0.02385584
30.	4.55755663	9.00507069	0.45947000	-0.34922254	1.13590872	0.05362694
35.	6.28511953	12.83524799	0.56504565	-0.49612066	1.01650834	0.08761914
40.	8.03697395	16.39951134	0.51288664	-0.66054523	0.87139571	0.12310183
45.	10.02866840	19.69744492	0.18037681	-0.88588458	0.74089062	0.15142499
50.	11.70015717	21.70052528	-0.23121113	-1.40941107	0.67907780	0.18206666
55.	12.81590176	22.60901451	-0.74318886	-1.63331115	0.57107782	0.20060553
60.	13.67635727	22.77445412	-1.34965563	-1.94611084	0.46134436	0.21995555
65.	14.39813328	22.60182381	-1.50795531	-2.15081120	0.42846665	0.23261659
70.	15.00473022	21.27185631	-1.58772230	-2.11038899	0.50397778	0.25042212
75.	15.49923229	19.10021019	-1.61392236	-2.20015574	0.60462230	0.26406100
80.	15.93096447	17.08175087	-1.61005545	-1.97891092	0.70954448	0.27599996
85.	16.22812653	15.17411041	-1.54554415	-1.84455550	0.80395550	0.27723885
90.	16.32424927	12.71232700	-1.45646656	-1.85941231	0.77858877	0.27866656
95.	16.09953308	9.59783268	-1.33837771	-1.74235547	0.60337776	0.27432773
100.	15.72016048	6.37094831	-1.15946662	-1.68402219	0.21354441	0.27784294
105.	15.16685390	3.40675998	-1.02147758	-1.68577778	-0.32211107	0.27717152
110.	14.54656887	0.53392726	-0.81520003	-1.86316681	-0.89881110	0.28185597
115.	13.89140320	-1.67891693	-0.70351112	-1.87392211	-1.39293325	0.26006508
120.	13.36255360	-3.12693048	-0.35954452	-1.34583330	-1.73178875	0.23445278
125.	12.65891171	-4.47856712	-0.15011096	-0.86590004	-2.08453321	0.20994444
130.	11.45180511	-5.07897520	0.41542217	-0.29714471	-2.37373352	0.16808887
135.	9.91671562	-4.94036388	1.00635540	0.14565536	-2.62488890	0.11211104
140.	8.10103703	-4.55461788	0.77046651	0.46006647	-2.85122228	0.07443333
145.	6.34383821	-3.53011990	0.66397482	0.69209987	-3.07727528	0.06040000
150.	4.83815336	-1.90764809	0.89184988	1.72542465	-3.22530007	0.04652879
155.	3.49883342	-0.68203145	0.69049990	2.51462460	-3.22922492	0.02205000
160.	2.37372303	0.80369371	-0.26300001	1.34574986	-3.16162515	0.00380000
165.	1.54250085	1.30413771	-0.57024997	0.20732500	-3.06857491	-0.01012500
170.	0.96329129	1.31454718	-0.68392491	-0.05269991	-2.97420001	0.00960000
175.	0.45558986	0.95385700	-0.43262500	0.03007501	-2.82615042	0.00157500
180.	0.11089010	0.03652439	-0.01582500	0.09327500	-2.70235610	0.00000770

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.95
PHI= 180.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00817357	-0.00454420	-0.05461383	0.03720890	1.18338585	-0.00989900
5.	0.51811993	0.22000667	-0.10681334	0.02812667	1.21871066	-0.01162157
10.	1.04223537	0.94757599	-0.23333263	-0.09426793	1.28094828	-0.01625150
15.	1.67211473	2.01023555	-0.40731451	-0.21851103	1.26081669	-0.02191397
20.	2.43260193	3.46151304	-0.27271900	-0.33649996	1.22926593	-0.03151880
25.	3.36999679	5.66445780	-0.18827987	-0.36830068	1.16888690	-0.03191403
30.	4.79723358	9.37721634	0.41355640	-1.15865922	1.10028863	-0.02239110
35.	6.53409529	13.77329636	1.44661844	-1.64035332	1.00229156	-0.00791797
40.	8.83762646	18.51647186	1.76235819	-1.71122301	0.90136486	0.00489220
45.	10.90270233	21.75014687	1.38188124	-1.64584506	0.79428697	0.01865767
50.	12.31091785	23.85804176	1.25865543	-1.48616672	0.66723329	0.03007777
55.	13.42004871	24.66010094	1.30595541	-1.01191103	0.51727772	0.03030001
60.	14.33893108	25.25264168	1.30319178	-0.65039432	0.38551110	0.02828887
65.	15.11866379	25.25619316	1.30228353	-0.59140003	0.35498884	0.02560434
70.	15.77842426	24.35758209	1.30610740	-0.47388887	0.42181116	0.02430334
75.	16.36432266	22.29825974	1.30247784	-0.35678893	0.55952221	0.02284051
80.	16.84860611	19.69389153	1.29608893	-0.37814444	0.73239994	0.02014444
85.	17.22519302	17.07190323	1.28559637	-0.35237786	0.87465549	0.01831111
90.	17.37102699	14.50098801	1.25634062	-0.29604444	0.84055549	0.01647681
95.	17.17375951	11.15534973	1.20342720	-0.27211124	0.56263328	0.01497778
100.	16.74210739	7.66854763	1.14072561	-0.35112441	0.16045547	0.01135554
105.	16.19555664	4.34098911	1.14999092	-0.43352091	-0.36899003	0.00705554
110.	15.54737759	1.14742672	1.11627972	-0.70641565	-0.85102224	0.00306668
115.	14.76861000	-1.59863162	1.09223807	-1.36563313	-1.31125569	0.00095555
120.	13.90308857	-3.42366934	1.07705939	-1.33477569	-1.71827745	0.00100385
125.	12.86829567	-4.69296551	1.09442246	-0.94033331	-2.08857799	0.00897728
130.	11.66269875	-5.13050623	1.30386651	-0.14788914	-2.38917756	0.01459384
135.	10.17098999	-4.82026768	1.63282216	0.28084427	-2.64717793	0.02028888
140.	8.43476200	-3.54987550	2.13132238	0.83972216	-2.87807775	0.02468887
145.	6.78368568	-2.22778106	1.84562492	0.87389988	-3.07260013	0.02864751
150.	5.15951967	-0.95927334	1.26609981	0.36690003	-3.18352509	0.02812500
155.	3.84241652	0.01705468	0.65022492	0.66462493	-3.19700027	0.01822500
160.	2.79149723	1.22204483	0.46619996	0.97864991	-3.14604998	0.00826700
165.	1.82274604	1.42169738	0.28597498	0.43089989	-3.05232525	0.00138183
170.	1.14325309	1.16430974	0.04599993	-0.02067500	-2.95492506	-0.00230977
175.	0.60624719	0.86017960	0.05117499	-0.04910000	-2.83737516	-0.00840420
180.	0.13156918	0.04965782	0.02157270	0.01497577	-2.69794989	0.00000000

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OF POOR QUALITY

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.95
PHI= 225.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00099337	-0.00454420	-0.04403033	0.03720890	1.18395281	-0.00952770
5.	0.48811319	0.05866664	-0.06879050	0.06251800	1.24122488	-0.01217890
10.	0.97480404	0.62937117	-0.17244112	-0.01920127	1.33455098	-0.01624113
15.	1.58771050	1.59357381	-0.27001804	-0.12851103	1.32039547	-0.02086397
20.	2.32100368	2.93516636	-0.17476466	-0.20822273	1.29641247	-0.03011880
25.	3.23120928	5.54348803	0.01368890	-0.18498918	1.24365878	-0.03016403
30.	4.54146910	9.34841633	-0.03537915	-0.15429971	1.16746378	-0.02652783
35.	6.04090929	13.41048050	-0.11829206	-0.12564026	1.06537020	-0.02293693
40.	7.76192999	17.17651749	-0.21265253	-0.10174757	0.94124103	-0.01991586
45.	9.96439362	21.19383430	-0.24631363	-0.09978756	0.84497362	-0.01543103
50.	11.85632706	23.58754539	-0.42513335	-0.20813332	0.71803331	-0.01424443
55.	13.29799175	24.21038628	-0.42053333	-0.27076665	0.59090086	-0.01058333
60.	14.35903931	23.86555862	-0.33813325	-0.40413320	0.51408893	-0.00508890
65.	15.16964817	22.83718491	-0.15538895	-0.40652215	0.47867772	-0.00411667
70.	15.85680962	21.25216675	-0.05512222	-0.32221106	0.60113335	-0.00253333
75.	16.47851944	19.55471230	0.03444444	-0.20623313	0.69057775	-0.00113890
80.	17.01710701	17.39844131	0.11385549	0.06037777	0.76542222	-0.00002224
85.	17.38714409	15.33892536	0.19181107	0.30408877	0.90585542	-0.00398334
90.	17.50437927	12.88091087	0.26581103	0.49880728	0.84543329	-0.00862220
95.	17.38200760	10.04351044	0.32398888	0.67286658	0.59062219	-0.00853887
100.	17.01824951	6.98123026	0.38101110	0.81503314	0.20458870	-0.00902223
105.	16.47755814	3.83167815	0.43288884	0.93561083	-0.32915559	-0.00914447
110.	15.77077866	0.73975682	0.48206648	1.02862191	-0.90884441	-0.01090000
115.	14.84367275	-1.68168330	0.49132216	1.01229358	-1.42047775	-0.01834446
120.	13.99412632	-3.18653321	0.41991106	0.89392370	-1.82815564	-0.02413073
125.	13.01517963	-3.84402037	0.34203318	0.66665530	-2.15496683	-0.02897780
130.	11.82427502	-4.28100634	0.32695556	0.31182212	-2.41392231	-0.03103016
135.	10.42796421	-4.24413204	0.24542218	0.01288886	-2.65938878	-0.03160000
140.	8.47229195	-3.94418478	0.18891111	-0.05903862	-2.84993339	-0.03235073
145.	6.30507803	-3.21042681	0.12539998	-0.29723251	-3.07772517	-0.02844996
150.	4.71859789	-2.24069428	-0.06039992	-0.49293253	-3.22235036	-0.02447500
155.	3.32504416	-1.17234528	-0.05797499	-0.66830093	-3.22770047	-0.02352500
160.	2.19998360	-0.25882933	0.06460011	-0.40760002	-3.16532516	-0.01945000
165.	1.50356269	0.57020098	0.19307499	0.08279989	-3.05684996	-0.01467500
170.	0.99303740	0.91630566	0.11207499	0.27849990	-2.95121169	-0.00875380
175.	0.56978720	0.77255768	0.05485000	0.17912500	-2.80655408	-0.00393743
180.	0.15501580	-0.00153958	0.04089997	-0.00187500	-2.70267510	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.95
PHI= 270.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00099337	-0.00454420	-0.04403033	0.03720890	1.19432592	-0.00952770
5.	0.48811319	0.12299989	-0.07019050	0.05812667	1.24592757	-0.00942060
10.	0.99527079	0.71798223	-0.16990779	-0.02674070	1.33475995	-0.00292880
15.	1.58771050	1.55650735	-0.27001804	-0.12657769	1.32423449	-0.00124730
20.	2.32100368	2.75392437	-0.19883071	-0.22808947	1.30424237	-0.00198547
25.	3.24793553	4.67414427	-0.14903594	-0.28525576	1.24881816	-0.00148904
30.	4.62566090	7.86109209	-0.11071686	-0.29985666	1.17675138	0.00040290
35.	6.26053572	11.81017876	-0.06592917	-0.41775829	1.07388771	0.00251390
40.	8.05629730	15.46852493	-0.00591666	-0.51066846	0.96259493	0.00604050
45.	10.14749146	19.34701347	0.06033145	-0.64023066	0.83487815	0.01086946
50.	12.02608109	21.33792877	-0.08804449	-0.74669993	0.72222221	0.01346667
55.	13.38587475	22.53829765	-0.08748891	-0.81127757	0.61409998	0.01204443
60.	14.43025017	22.85724258	-0.08316676	-0.85072219	0.52620006	0.00907777
65.	15.25612068	22.62702560	-0.04642229	-0.89312202	0.41735554	0.00145557
70.	15.89966011	21.79771805	-0.00814448	-0.88781095	0.45472232	-0.00671110
75.	16.49822426	19.81225204	0.03201111	-0.85664433	0.57150000	-0.01390000
80.	16.96446037	17.37995338	0.07414440	-0.80598891	0.71430004	-0.02056667
85.	17.32568169	14.88035679	0.11589995	-0.71448874	0.91101104	-0.02670000
90.	17.46784019	12.41377544	0.13415551	-0.69358164	0.90227765	-0.02892883
95.	17.29384613	8.91339207	0.14808884	-0.65617770	0.73403323	-0.02650000
100.	16.93302536	5.61133003	0.13498877	-0.62367266	0.31633329	-0.02351110
105.	16.39765549	2.49746680	0.10840632	-0.58719838	-0.26643330	-0.02180000
110.	15.69415092	0.06733105	0.09253319	-0.55251139	-0.85545558	-0.02302220
115.	14.81411743	-1.76544988	0.13623323	-0.50397950	-1.40037763	-0.02516667
120.	13.88581657	-3.26493311	0.15279992	-0.45526218	-1.83282220	-0.02674443
125.	12.83576107	-4.26568031	0.17363329	-0.48297176	-2.13796663	-0.02065553
130.	11.67631340	-5.09195471	0.26398885	-0.52550250	-2.38403320	-0.01174446
135.	10.25820065	-4.94318199	0.31292215	-0.51905119	-2.63478875	-0.00253333
140.	8.46449566	-4.01536226	0.37732220	-0.57799792	-2.84971094	0.00701110
145.	6.30938768	-2.87341046	0.41184986	-0.79025000	-3.05420041	0.01137500
150.	4.33920097	-1.72706568	0.40572488	-0.89847493	-3.20085001	0.00986380
155.	2.96764636	-0.84553391	0.38082495	-0.72502506	-3.22257519	0.00102653
160.	1.97631657	0.01429453	0.36039996	-0.43070000	-3.10477519	-0.00324547
165.	1.27847028	0.68356657	0.19552498	-0.11517505	-2.95707512	-0.00235000
170.	0.73105669	0.83058137	0.03259998	0.03852497	-2.84502482	-0.00132500
175.	0.33759025	0.79221052	-0.01157501	0.01739998	-2.74362516	-0.00150000
180.	0.07802913	0.19893730	0.02200000	-0.01940000	-2.69909239	0.00000493

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FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.95
PHI= 315.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00099337	-0.00454420	-0.05461383	0.03720890	1.18259370	-0.00952770
5.	0.48811319	0.00893330	-0.09881333	0.01519334	1.25333381	-0.00951807
10.	0.98502362	0.68204898	-0.20864099	-0.10967395	1.30483150	-0.00891800
15.	1.58771050	1.59357381	-0.39095134	-0.25151095	1.29673934	-0.00984730
20.	2.32793689	2.92446661	-0.31384519	-0.37128931	1.27381551	-0.01274054
25.	3.25759721	5.18181181	-0.33081689	-0.30178910	1.21718574	-0.01278070
30.	4.67162323	8.55595875	-0.37673935	-0.21596695	1.15040731	-0.01146357
35.	6.22169065	12.34054279	-0.42765445	-0.14999098	1.06759191	-0.01088410
40.	7.96478128	16.19129372	-0.48375148	-0.12941293	0.96147984	-0.00891960
45.	10.10641193	20.32275391	-0.53775686	-0.31011853	0.84173959	-0.00735510
50.	11.87522602	22.28477287	-0.73075551	-0.91546661	0.69682223	-0.01410000
55.	13.42427540	23.24445343	-0.77924448	-1.02632213	0.61393327	-0.01831110
60.	14.62019444	23.39003754	-0.82570004	-1.06435549	0.52919990	-0.02353333
65.	15.52584362	22.85157967	-0.82921523	-1.06817257	0.47073331	-0.03186667
70.	16.25343895	21.29218483	-0.83358890	-0.94904435	0.55586666	-0.03913333
75.	16.81479836	19.33722496	-0.81464428	-1.00859992	0.65716666	-0.04683334
80.	17.17060280	17.44116783	-0.72398883	-1.32571113	0.82219982	-0.05461110
85.	17.34147644	14.91745472	-0.64847767	-1.48032212	0.91852218	-0.06098887
90.	17.37526321	12.37033558	-0.58252198	-1.65906656	0.86272210	-0.06181294
95.	17.25561142	9.42929554	-0.54674435	-1.71719992	0.61084437	-0.05422220
100.	16.90953827	6.80537701	-0.47563323	-1.80438864	0.20579983	-0.04120887
105.	16.37575912	3.64665627	-0.41062221	-1.93516648	-0.33353326	-0.03315554
110.	15.70000744	0.47908565	-0.45447776	-1.96981108	-0.90097773	-0.02758887
115.	14.85267067	-1.71350360	-0.35206652	-2.01987767	-1.40215552	-0.02724444
120.	13.95281029	-3.60448647	-0.18934430	-2.07577777	-1.77971113	-0.02244443
125.	12.89709282	-4.38508129	-0.05514441	-2.08534408	-2.11197782	-0.01797777
130.	11.78861332	-4.58039093	-0.01586655	-1.93096673	-2.35505557	-0.01456667
135.	10.33963299	-4.69317245	0.01105562	-1.65491104	-2.55782199	-0.00962980
140.	8.26397896	-4.59492731	0.02692229	-1.59811115	-2.75867772	-0.01120533
145.	6.04021263	-3.72704506	0.04730004	-1.87329984	-2.99542522	-0.01626416
150.	4.31056690	-2.22859979	0.02382499	-2.14897513	-3.18159986	-0.02247500
155.	2.91340899	-0.83579999	0.03667513	-1.87644982	-3.25172520	-0.02704126
160.	1.88849390	0.02470066	0.05962506	-1.37814987	-3.13732505	-0.02847696
165.	1.18727481	0.52079582	-0.05897494	-0.79172492	-2.93711424	-0.02507250
170.	0.69008297	0.72398442	-0.15372498	-0.40999994	-2.78649020	-0.01798717
175.	0.36858943	0.61137968	-0.12602501	-0.09367500	-2.72007275	-0.01040223
180.	0.10189710	0.19438276	-0.02909999	-0.01052500	-2.70047188	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 0.95
PHI= 360.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00086003	-0.00454420	-0.05461383	0.03720890	1.18606734	-0.01093557
5.	0.45061320	0.13549989	-0.04181334	0.00812667	1.21968019	-0.01031317
10.	0.89980406	0.84601200	-0.08964263	0.02573207	1.28035438	-0.01325150
15.	1.47521043	1.93881726	-0.24256855	-0.03851102	1.26154625	-0.01741397
20.	2.17793703	3.56027317	-0.53299856	-0.08213230	1.23195970	-0.02398547
25.	3.16917610	6.03067064	-0.91529661	0.05127747	1.17569411	-0.02980320
30.	4.75071287	10.27920246	-1.38026668	0.37176350	1.11462998	-0.03702954
35.	6.84745455	15.10906124	-1.97367597	0.82514262	1.02453542	-0.05462920
40.	8.93664360	18.88421822	-2.28499579	0.97950751	0.91749650	-0.06319723
45.	10.85034847	21.98467827	-2.31654692	0.72002715	0.77634728	-0.07309424
50.	12.39051342	24.18056870	-2.23233342	0.44176668	0.63543338	-0.09517413
55.	13.67398071	25.14915848	-2.05486655	0.32514447	0.46510005	-0.10424978
60.	14.50507736	25.37991333	-1.96460950	0.07452154	0.31617939	-0.11639911
65.	15.26998329	25.21690369	-1.82219279	-0.15347663	0.25074041	-0.12213943
70.	15.88278484	24.51171684	-1.75852084	-0.62122077	0.29635429	-0.12550510
75.	16.44840240	22.53043747	-1.72253227	-0.83847493	0.45400017	-0.13277905
80.	17.01290703	19.96604347	-1.67690396	-1.06362236	0.70519376	-0.14004274
85.	17.36057854	16.97724533	-1.61225152	-1.11830091	0.83849835	-0.14052099
90.	17.41836166	13.89437294	-1.52629149	-1.08441436	0.87213957	-0.13928628
95.	17.21989441	11.12550640	-1.40451705	-1.07021439	0.58652502	-0.13854738
100.	16.68350220	7.88057995	-1.36985910	-0.93670142	0.15657014	-0.13658828
105.	15.99767685	4.35236216	-1.42137396	-0.16664445	-0.30678526	-0.12593190
110.	15.29170227	1.11168253	-1.41511166	0.17988759	-0.83297062	-0..1655111
115.	14.42372704	-1.14617884	-1.41237938	0.91354859	-1.33390164	-0.10316270
120.	13.58332634	-3.13944983	-1.40645254	1.00162280	-1.77716446	-0.09230017
125.	12.58082485	-4.33525562	-1.37917376	0.93229014	-2.11437178	-0.08918424
130.	11.43644905	-4.74140549	-1.38324022	-0.19770002	-2.36438203	-0.07987110
135.	10.08640575	-4.37101555	-1.51585591	-0.63718492	-2.61730409	-0.06139484
140.	8.45306301	-3.14936662	-1.75437963	-1.04300213	-2.82775378	-0.04536100
145.	6.69793653	-1.83236933	-1.70837498	-0.92737222	-3.03335667	-0.03199630
150.	5.16185760	-0.78236622	-1.01817214	-0.75964993	-3.15182018	-0.01252784
155.	3.86779904	0.32758379	-0.56296599	-0.51578325	-3.17175484	-0.00045617
160.	2.82450819	1.38374889	-0.22240651	-0.26321244	-3.14500046	0.00234423
165.	1.81581986	1.51509011	0.04443610	0.30954239	-3.06708717	-0.00193844
170.	1.13648355	1.30443466	0.02560759	0.10191457	-2.96713805	-0.00333773
175.	0.53599972	0.95415729	-0.02063501	0.03356862	-2.83102846	-0.00322800
180.	0.07874337	0.20125216	-0.00958500	-0.02113500	-2.69980931	-0.00002150

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.05
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00098010	-0.01363260	-0.05464150	0.03722670	1.35000241	-0.01380670
5.	0.47563979	0.11739990	-0.05184000	0.09568001	1.42264044	-0.00853950
10.	0.94981229	0.98603624	-0.09392810	0.05579620	1.50306320	-0.01075450
15.	1.55023098	2.38315225	-0.27190602	-0.01603310	1.48083854	-0.01744190
20.	2.27101064	4.70841829	-0.54959565	-0.03999710	1.45687914	-0.02555640
25.	3.16872764	7.43851233	-0.91280990	0.00873241	1.38648200	-0.03400960
30.	4.61553860	10.72480774	-1.34719992	0.27049050	1.30949044	-0.04608860
35.	6.62716436	13.97668552	-1.73762822	0.43312824	1.17740631	-0.05628760
40.	8.81993294	17.12085724	-1.94918764	0.61452276	1.03608998	-0.06399170
45.	10.76704502	19.78233528	-2.01684141	0.83898151	0.88004220	-0.06944350
50.	12.75214005	22.42291641	-1.87580001	0.46690002	0.78969991	-0.11427460
55.	14.64654160	24.13117981	-1.87820005	0.38413343	0.64670002	-0.12342130
60.	15.82602978	25.30958748	-1.88448930	0.08956462	0.53513807	-0.13606670
65.	16.91235161	25.53701019	-1.84377037	-0.15550280	0.49622130	-0.14601849
70.	17.81115341	25.12155342	-1.79459202	-0.78846222	0.47226271	-0.15471530
75.	18.61220741	22.70461273	-1.70041859	-0.82650125	0.73563153	-0.16533031
80.	19.69672585	20.78133583	-1.63089001	-1.00538790	0.91199732	-0.17891860
85.	20.39053345	18.12383652	-1.52159262	-1.12069941	0.88306141	-0.18118210
90.	20.42308235	15.51892090	-1.43087304	-1.07595420	0.71813643	-0.17985900
95.	20.06967735	12.96901703	-1.37875104	-1.04314303	0.34837520	-0.17895651
100.	19.34770775	10.00273895	-1.40577722	-1.01210415	-0.07308910	-0.17536479
105.	18.36783409	6.50028563	-1.58358777	-0.66033328	-0.50775582	-0.15559590
110.	17.47370529	3.53504610	-1.53533530	-0.52443683	-0.99862611	-0.14605330
115.	16.58337593	1.08386207	-1.49713850	-0.37234509	-1.46965766	-0.12971370
120.	15.73777962	-0.86634994	-1.41069150	-0.05973142	-1.87291825	-0.11699950
125.	14.81727123	-2.22156882	-1.23248100	-0.07432956	-2.18835473	-0.11131711
130.	13.50134850	-3.15141582	-1.33933163	-0.32210004	-2.44399214	-0.10121330
135.	12.04121780	-3.60404587	-1.36557055	-0.20732841	-2.71275997	-0.08433950
140.	9.94579029	-3.52210021	-1.29697430	-0.49460700	-2.96045876	-0.06374900
145.	7.57880878	-2.95690727	-1.07712483	-0.73711711	-3.21347022	-0.04598890
150.	5.75697231	-1.82509780	-0.87033308	-1.02254999	-3.35724521	-0.02617590
155.	4.02079725	0.03015178	-0.40389803	-1.05014992	-3.40481734	-0.00952230
160.	2.79532504	1.38604653	-0.07480220	-0.97603744	-3.41267133	-0.00456730
165.	2.02166009	1.55627024	0.75323290	0.97422028	-3.39885974	-0.01117870
170.	1.17805052	1.20570374	0.16015810	0.31414101	-3.29488993	-0.00635740
175.	0.54359931	0.90547180	-0.04510500	-0.01090030	-3.16689110	-0.00273080
180.	0.06683010	0.12975670	-0.00931500	-0.03784500	-3.03166986	-0.00001190

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.05
PHI= 45.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00098010	-0.00044450	-0.05464150	0.02858110	1.35139263	-0.01081670
5.	0.46313980	0.26514950	-0.12684000	0.01568000	1.43712771	-0.01050000
10.	0.92481232	0.85151470	-0.27339789	-0.10420381	1.50543642	-0.01085780
15.	1.51273096	2.01850796	-0.36037150	-0.25603309	1.48910356	-0.01534190
20.	2.22101068	3.63698506	-0.31154600	-0.37826842	1.45172095	-0.02704190
25.	3.10622764	6.06280899	-0.28633329	-0.31126761	1.39431393	-0.04386870
30.	4.49353695	9.31862354	-0.19659860	-0.23291750	1.30822766	-0.06295040
35.	6.59592772	12.31042576	-0.31924438	-0.10878111	1.14243841	-0.08268630
40.	8.52652359	15.38195038	-0.51559949	0.01880890	0.99117422	-0.11099860
45.	10.49477196	18.34868240	-0.57560247	0.15341192	0.84657711	-0.13211140
50.	11.78074455	20.51787567	-0.01199996	0.71446663	0.85596663	-0.16040000
55.	13.48495674	21.93517303	0.24980003	0.85160817	0.76029992	-0.20819861
60.	14.74234200	22.54781723	0.56916666	0.92820835	0.69445592	-0.24174500
65.	15.67120361	22.59726715	0.67401242	0.95907331	0.64149117	-0.25831911
70.	16.55533981	21.66299057	0.77837127	0.61049330	0.67769557	-0.26755261
75.	17.23677826	20.21963120	0.76869124	0.46835512	0.89713073	-0.27032980
80.	17.77725029	18.36130905	0.75305218	0.27996850	0.99526632	-0.27869910
85.	18.12467957	16.20119095	0.73018366	0.29328233	0.94216931	-0.28229472
90.	18.31347656	13.79460812	0.68038803	0.34121644	0.75661242	-0.28126049
95.	18.31444359	11.21034241	0.62091100	0.32837355	0.39138520	-0.28025201
100.	18.06583977	8.52026081	0.54426885	0.37170601	-0.05063040	-0.27741972
105.	17.42013359	5.88813829	0.50983357	0.75392079	-0.51586151	-0.27562192
110.	16.71793556	2.78905010	0.54013145	0.92339110	-1.01771522	-0.26151711
115.	15.99252605	0.57296711	0.43780351	1.19346702	-1.42260921	-0.24887200
120.	15.05428886	-0.86105001	0.34499592	1.26741552	-1.81073725	-0.23125930
125.	13.97002602	-2.27013850	0.33128685	1.02211750	-2.13667059	-0.20678370
130.	12.73100471	-3.51373053	-0.04344672	1.18758130	-2.42825723	-0.18265730
135.	11.14604855	-4.45479345	-0.15344107	1.12090468	-2.68244362	-0.15787600
140.	8.94890881	-4.76022816	-0.42768270	1.14691317	-2.90265560	-0.13373330
145.	6.83820629	-4.30252075	-0.53044021	1.02587247	-3.10667030	-0.10583941
150.	5.09401131	-2.95987153	-0.64874291	0.77784765	-3.35382700	-0.07636050
155.	3.60018873	-1.41076469	-0.69761521	0.09092221	-3.42735338	-0.04838770
160.	2.33827281	-0.19786631	-0.66521895	-0.67336136	-3.42106295	-0.02636020
165.	1.47925305	0.45481861	-0.72063714	-0.90451437	-3.37189770	-0.01380790
170.	0.85558081	0.66460901	-0.14979310	-0.12708500	-3.28583074	-0.00862440
175.	0.51687151	0.48440760	-0.02122150	-0.08501790	-3.17734385	-0.00463610
180.	0.12040040	0.12322430	-0.00183500	-0.02393500	-3.03176260	-0.00000830

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.05
PHI= 90.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00098010	-0.01363260	-0.04409100	0.03722670	1.35204816	-0.01089650
5.	0.48063982	0.34641981	-0.06957150	0.04992500	1.41647434	-0.01071590
10.	0.96070254	1.21757400	-0.12134110	-0.04952020	1.50351036	-0.01214850
15.	1.56523097	2.47217536	-0.17301191	-0.15853310	1.48011100	-0.01999190
20.	2.30144954	4.21838999	-0.23992109	-0.24826841	1.44561505	-0.02744750
25.	3.31148219	6.58246756	-0.28836912	-0.14876761	1.37568903	-0.03196440
30.	4.70843744	9.83591652	-0.32328972	-0.04524950	1.30089474	-0.03630510
35.	6.41842604	13.60155296	-0.34390301	0.10623780	1.15463185	-0.0414161[illegible]
40.	8.37469006	16.86585236	-0.36451650	0.05432381	0.95502591	-0.04272760
45.	10.35884190	19.56854057	-0.38482732	0.19791001	0.80088967	-0.03976750
50.	12.54395771	21.52249146	-0.37880000	-0.09350000	0.80970000	-0.02485010
55.	14.10548306	22.99308205	-0.39926663	-0.08186670	0.73263282	-0.02631450
60.	15.36884403	23.59285736	-0.38007051	-0.07790280	0.62544590	-0.02726920
65.	16.49903679	23.20103455	-0.36727703	-0.04340409	0.57921243	-0.02737820
70.	17.46072769	21.94223976	-0.32882652	-0.05386630	0.63327980	-0.02822130
75.	18.47910690	20.60573196	-0.33400550	-0.04788129	0.79082292	-0.02943110
80.	19.20660400	18.53586388	-0.35791951	-0.04891019	0.96226662	-0.03257120
85.	19.66412926	16.25717163	-0.35357541	0.00523020	0.92233407	-0.03337000
90.	19.72902679	13.75376511	-0.34586331	0.00315821	0.76145250	-0.03254990
95.	19.24545288	10.97236252	-0.36952430	0.00511251	0.46238071	-0.02601650
100.	18.57125854	8.45649910	-0.38991711	0.12868600	0.00269560	-0.02418510
105.	18.29998589	5.66242695	-0.40066320	0.20768960	-0.42503050	-0.02322790
110.	17.74501038	2.92149854	-0.40721792	0.20958610	-0.95771283	-0.02361410
115.	16.72823524	0.81264514	-0.39866632	0.24500830	-1.45682323	-0.02848530
120.	15.49100508	-1.21510971	-0.30794102	0.15366539	-1.83138132	-0.03254410
125.	14.19839764	-2.96082020	-0.32643580	0.08286020	-2.15703980	-0.03634650
130.	12.82804012	-4.16307878	-0.32058400	0.04029959	-2.44017792	-0.03660680
135.	11.26362413	-4.75206709	-0.32879731	0.07840000	-2.67731166	-0.03053670
140.	9.22164345	-4.78341770	-0.28116861	0.34673330	-2.91818213	-0.02468430
145.	7.09000111	-4.11473274	-0.32950300	0.45370832	-3.18024158	-0.01592240
150.	4.76195812	-2.81150913	-0.25136849	0.14817500	-3.3[illegible]915	-0.01290500
155.	3.30533075	-1.76121187	-0.20405360	-0.06584060	-3.4[illegible]075	-0.01129500
160.	2.32845211	-0.41542211	-0.31378630	-0.64337504	-3.4[illegible]053	-0.00669310
165.	1.55135798	0.30102509	-1.07387125	-1.79838300	-3.41306216	-0.00158950
170.	1.01139355	0.52037722	-0.29987311	-0.19931580	-3.30933356	-0.00347910
175.	0.50415641	0.34897640	0.04480900	-0.03698400	-3.17485976	-0.00167700
180.	0.13344660	0.00249320	0.01582250	0.01724500	-3.03425860	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.05
PHI= 135.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00098010	0.01728610	-0.05464150	0.02858110	1.35203385	-0.01038210
5.	0.46313980	0.48501980	-0.00457150	0.10068000	1.44876063	-0.01011470
10.	0.92481232	1.40566444	-0.06339791	0.04317790	1.50283194	0.00003400
15.	1.51273096	2.70972252	-0.16965410	-0.00103310	1.48554993	0.01333020
20.	2.22101068	4.50550747	-0.01515691	-0.03826840	1.45770192	0.02871520
25.	3.27735043	6.91902447	0.23866660	0.11373241	1.39658642	0.04306750
30.	4.71787071	10.22201061	0.75380993	0.13833100	1.30252635	0.06100000
35.	6.56475830	13.64894390	0.63473731	0.12503742	1.09732533	0.08195740
40.	8.56132126	16.41653824	0.35906020	0.06236359	0.89478731	0.11310570
45.	10.49460411	18.50973129	0.07773060	-0.01045412	0.76287100	0.13657500
50.	12.09646900	19.98757935	-0.61223320	-1.02243340	0.85743332	0.15500000
55.	13.33410168	21.03844643	-0.83296657	-1.25113356	0.80143332	0.17611660
60.	14.40566921	21.81816483	-1.07916665	-1.43313324	0.70903331	0.19286661
65.	15.40579700	21.82347107	-1.13106644	-1.45063329	0.67780000	0.20675001
70.	16.25999069	20.81756973	-1.13256693	-1.41816664	0.72993332	0.22006659
75.	17.02949715	19.81403427	-1.11756694	-1.43526685	0.81226671	0.22868320
80.	17.86269379	17.49444962	-1.07476664	-1.29433310	0.84243321	0.23559991
85.	18.50838089	15.93273163	-0.99883324	-1.24086666	0.82466662	0.23541659
90.	18.70294571	14.02078152	-0.90619975	-1.24903715	0.71116662	0.23479991
95.	18.51379585	11.26989460	-0.80633330	-1.18426645	0.45373330	0.23128320
100.	18.18887711	8.10444450	-0.67399991	-1.11406660	0.03203330	0.22992802
105.	17.57216454	5.42787790	-0.56303310	-1.10653329	-0.48993331	0.22751501
110.	16.81010246	2.25958037	-0.47039986	-1.24010003	-1.02783334	0.22656810
115.	16.04380608	0.27004811	-0.30533350	-1.50876665	-1.52719975	0.21239521
120.	15.13785648	-1.04999244	-0.15883332	-1.30809999	-1.88876641	0.19315331
125.	13.80693531	-2.34484649	-0.08313322	-1.02790022	-2.24599981	0.17283331
130.	12.43081093	-3.58192587	0.34066671	-0.83483344	-2.50440001	0.13706660
135.	10.71434307	-4.14509010	0.58266670	-0.53843331	-2.75106645	0.10073330
140.	8.81231213	-4.38285303	0.56980008	-0.46299991	-3.00566673	0.06950000
145.	6.93311405	-4.03470564	0.45232499	-0.60350001	-3.26902533	0.04880000
150.	5.18165874	-2.64234400	0.58715004	-0.12512511	-3.43230009	0.03410960
155.	3.61490011	-1.29609382	0.68370003	0.42467493	-3.46627474	0.01395000
160.	2.45476890	-0.17321710	0.18720001	0.43584991	-3.42107511	0.00380000
165.	1.66010225	0.53175312	-0.34935001	0.21137500	-3.36112499	-0.00037500
170.	1.05247402	0.53536463	-0.76397491	0.05130000	-3.29780006	0.00500000
175.	0.45556980	0.38693771	-0.39007500	0.03382500	-3.17344999	0.00152500
180.	0.11007030	0.00420040	-0.01307500	0.06862500	-3.03128123	0.00002310

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.05
PHI= 180.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.02252070	-0.01363260	-0.05464150	0.03722670	1.34955764	-0.01069700
5.	0.67815989	0.45051992	-0.03684000	0.02068000	1.42753172	-0.00946470
10.	1.37710583	1.33612812	-0.21339791	-0.09420381	1.50484490	-0.01375450
15.	2.14094353	2.67160583	-0.34274399	-0.24103309	1.47864985	-0.02194190
20.	3.05580497	4.46953850	-0.31515691	-0.38809391	1.44639826	-0.03155640
25.	4.14758968	6.87727213	-0.14223960	-0.64500183	1.37686062	-0.03194210
30.	5.69189978	10.14564800	0.36106941	-1.02817774	1.30486584	-0.02517330
35.	7.26428461	13.44919109	1.18305552	-1.31615996	1.18267465	-0.01615390
40.	9.22867966	16.67321396	1.55427516	-0.93606931	1.07109475	-0.00512340
45.	11.46570683	19.94154167	1.23244417	-0.82043570	0.96286100	0.01017300
50.	13.16735268	22.37692261	0.83256668	-1.33490002	0.83669990	0.04843330
55.	14.55314541	24.22935677	0.86106664	-1.09303319	0.72323322	0.05470000
60.	15.76799011	25.44892502	0.87588227	-0.88538295	0.63853317	0.05766660
65.	16.84339142	25.59588623	0.91457874	-0.76290005	0.63516653	0.05983040
70.	17.73946953	25.04374504	0.98501760	-0.55186665	0.65843332	0.06270140
75.	18.55296707	22.28488159	1.04843354	-0.34746680	0.71276671	0.06361730
80.	19.28202248	20.06088066	1.10426664	-0.30143341	0.77759981	0.06183330
85.	19.79357338	17.81241226	1.14845562	-0.27943355	0.82176661	0.06013330
90.	19.98128319	15.47676086	1.16508887	-0.25953332	0.70326672	0.05963040
95.	19.72079468	12.92435074	1.11455441	-0.22603354	0.37329993	0.06093330
100.	19.16472244	9.99424171	1.04733968	-0.25408190	-0.02963330	0.06206660
105.	18.45167160	6.35376644	1.13325357	-0.17059466	-0.53810000	0.06256660
110.	17.65233231	2.90707922	1.04971993	-0.18617833	-0.98626661	0.06280001
115.	16.75383186	0.55370384	0.98495901	-0.20510012	-1.46836674	0.06286661
120.	15.70566273	-1.42740881	0.88011116	-0.47067529	-1.86743295	0.06301150
125.	14.59848595	-2.87069678	0.75109535	-0.22659999	-2.23173332	0.06533180
130.	13.46129799	-3.87531757	0.99160016	-0.06606686	-2.51753306	0.06508151
135.	11.98656845	-4.58400345	1.11006677	0.09453329	-2.78833342	0.06326661
140.	9.79168606	-4.29202604	1.20776665	0.48816660	-3.02203369	0.05526660
145.	7.80245590	-3.31334209	0.80987501	0.61989999	-3.26099992	0.05028250
150.	5.90155792	-1.96121931	0.55429995	0.57789999	-3.39537501	0.03977500
155.	4.10524940	-0.47463551	0.15547493	0.81747502	-3.43080020	0.02227500
160.	2.95689225	1.19013488	0.12100001	0.89155030	-3.41875005	0.01060100
165.	2.05883861	1.33569264	0.06832501	0.35850000	-3.35997534	0.00394550
170.	1.29175925	0.87232912	0.03620000	-0.01642500	-3.30097532	0.00067070
175.	0.64754152	0.28373930	0.01672500	-0.03550000	-3.18692541	-0.00161260
180.	0.14330751	-0.03850210	0.02519090	0.01099190	-3.03064966	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.05
PHI= 225.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00098010	-0.01363260	-0.04409100	0.03722670	1.34965873	-0.00958310
5.	0.48063982	0.11739990	-0.04457150	0.07255400	1.41647470	-0.01183670
10.	0.95981234	0.63791364	-0.13752340	0.00079620	1.50685310	-0.01512340
15.	1.56523097	1.60832191	-0.28965411	-0.09853309	1.47498643	-0.02089190
20.	2.29101062	3.09089923	-0.10269400	-0.16826841	1.44223726	-0.03015640
25.	3.19372773	6.01666498	0.03866670	-0.04876760	1.37437654	-0.03019210
30.	4.56320715	10.10644913	0.07906251	0.07590080	1.30619144	-0.02053590
35.	6.30562735	14.17344284	0.11652330	0.18487911	1.21031046	-0.01248440
40.	8.24878979	17.30735016	0.12124230	0.27855691	1.10612321	-0.00754760
45.	10.30347919	20.36150551	0.07765900	0.30643710	1.00152063	-0.00139310
50.	12.17058372	22.63643646	-0.45139992	-0.19040000	0.90549982	-0.00713330
55.	13.59027576	24.15016365	-0.48220003	-0.02330001	0.81690001	-0.00685000
60.	15.07251358	24.20488739	-0.47440001	0.01360010	0.75026661	-0.00606670
65.	16.10024071	22.96574402	-0.36536661	0.03703339	0.71023321	-0.00705000
70.	17.05782890	21.55929375	-0.28236651	0.07636670	0.76459992	-0.00760000
75.	17.85465622	19.95473862	-0.19966650	0.12870009	0.84573323	-0.00851670
80.	18.53731728	18.22272682	-0.12103330	0.24553330	0.88386661	-0.01006670
85.	19.08133316	16.25997543	-0.04206660	0.35466662	0.88056660	-0.01385000
90.	19.22672844	14.33293343	0.03563350	0.45402211	0.74449992	-0.01786660
95.	19.01392555	11.93253231	0.06636679	0.59180003	0.44106650	-0.01551660
100.	18.55294609	8.97809029	0.09323350	0.69289982	0.01916660	-0.01266670
105.	18.29527283	6.30183315	0.10866670	0.76703316	-0.51586670	-0.00923340
110.	17.48853683	3.41079664	0.12900001	0.82106650	-1.05573332	-0.00690000
115.	16.31341553	1.20974910	0.11096670	0.86960082	-1.55083334	-0.00763340
120.	15.46737766	-0.40340030	-0.02066660	0.88457143	-1.94926655	-0.00839220
125.	14.46973991	-1.87706113	0.00790010	0.75696647	-2.28629994	-0.01013340
130.	12.94042015	-2.85543752	0.03246680	0.64266664	-2.54716706	-0.01204150
135.	11.31129456	-3.84939623	-0.02613330	0.43426651	-2.79916644	-0.01320000
140.	9.08567524	-4.14775372	-0.11086661	0.04928410	-2.95660019	-0.01820740
145.	6.85963440	-3.73227906	-0.10560000	-0.22827750	-3.27037525	-0.01868330
150.	5.03199291	-2.54448247	-0.21900001	-0.19737750	-3.42345047	-0.02082500
155.	3.54013181	-1.39923573	-0.23032500	-0.09120001	-3.46170020	-0.02697500
160.	2.37155104	-0.41428810	-0.19759990	0.01820001	-3.43217516	-0.02535000
165.	1.57468820	0.41620299	-0.07137500	-0.00620000	-3.32595015	-0.01932500
170.	1.01031232	0.77011693	-0.01317500	-0.05310000	-3.22880387	-0.01259400
175.	0.56976151	0.39007360	0.02155000	-0.05882490	-3.11471796	-0.00511250
180.	0.13424741	-0.06825250	0.04829990	-0.01662500	-3.03222466	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*L_REF (STA 1255.9)

MACH= 1.05
PHI= 270.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00098010	-0.01363260	-0.04409100	0.03722670	1.36157835	-0.00958310
5.	0.48063982	0.11739990	-0.04457150	0.06818000	1.41258252	-0.01146180
10.	0.95981234	0.67114723	-0.13752340	-0.02182210	1.48968005	-0.01538640
15.	1.56523097	1.60832191	-0.28965411	-0.09853309	1.46870375	-0.01894190
20.	2.29101062	3.03717303	-0.17409231	-0.16826841	1.44772720	-0.02755640
25.	3.24390650	5.08383322	-0.12468000	-0.04876760	1.38085425	-0.02694210
30.	4.58938265	8.01987553	-0.09975060	0.15102960	1.31325412	-0.02213410
35.	6.33270693	11.74793530	-0.06478750	-0.04947500	1.22786331	-0.01665830
40.	8.28769207	15.46837330	0.03065000	-0.20460550	1.13258481	-0.00987850
45.	10.35557365	18.71864128	0.17839430	-0.36169240	1.02823472	0.00140840
50.	12.18444157	21.26778793	-0.32013330	-0.45309982	0.87466651	0.00680000
55.	13.81852245	22.53209877	-0.36906654	-0.49403319	0.78570002	0.00493330
60.	15.17534924	23.17832565	-0.40650001	-0.52556670	0.71980000	0.00223330
65.	16.29626083	22.82567596	-0.34826663	-0.58156663	0.67526662	-0.00463330
70.	17.23637962	21.81415367	-0.28783321	-0.61563313	0.70236671	-0.01173330
75.	18.08797073	19.82835388	-0.22676650	-0.63873333	0.78070003	-0.01870000
80.	18.82538033	17.89566612	-0.16496660	-0.66016674	0.84950000	-0.02550000
85.	19.35594940	16.09886932	-0.10429999	-0.64506650	0.88443333	-0.03350000
90.	19.45711517	13.98052406	-0.06233330	-0.64302069	0.77743322	-0.04056950
95.	19.28183746	10.79297733	-0.07113330	-0.57053322	0.51550001	-0.03770000
100.	18.79487610	8.10118961	-0.09123331	-0.49340254	0.11820000	-0.03213330
105.	18.56876373	6.06799841	-0.12451151	-0.42062783	-0.41110000	-0.02660000
110.	17.77004814	3.74939203	-0.15040001	-0.35347623	-0.96856660	-0.02226660
115.	16.73495293	1.54664862	-0.17109990	-0.23501980	-1.50873315	-0.01810000
120.	15.59065056	-0.44499981	-0.27640000	-0.12288380	-1.96686661	-0.01323330
125.	14.44688416	-2.16464019	-0.21449989	-0.18371540	-2.26769996	-0.00496660
130.	13.10734081	-3.57446575	-0.15383320	-0.15258679	-2.52590013	0.00656660
135.	11.52000046	-4.22774458	-0.12943330	-0.27233621	-2.77736664	0.01720000
140.	9.62128353	-3.68748736	-0.12823319	-0.68268484	-3.00553322	0.01963330
145.	7.17396259	-3.11283135	-0.12285000	-0.85294992	-3.23820043	0.01632500
150.	4.73960161	-2.37419724	-0.18282491	-0.64082491	-3.40335011	0.00782120
155.	3.08193851	-1.54040158	-0.18872491	-0.37607503	-3.45232534	-0.00352040
160.	2.12075043	-0.38191622	-0.19300000	-0.21370000	-3.39872503	-0.00693640
165.	1.33401120	0.49970001	-0.14502500	-0.22652501	-3.30482531	-0.00645000
170.	0.73257053	0.80894411	-0.09720000	-0.22862500	-3.20667481	-0.00557500
175.	0.33757091	0.88703161	-0.04292500	-0.10680000	-3.08767509	-0.00350000
180.	0.06168740	0.14241190	0.02200000	-0.01940000	-3.02942228	0.00000160

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.05
PHI= 315.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00098010	-0.01363260	-0.05464150	0.03722670	1.34498131	-0.00958310
5.	0.48063982	0.11739990	-0.06184000	0.06818000	1.42800200	-0.01175420
10.	0.99047095	0.67114723	-0.13752340	-0.02182210	1.50349510	-0.01555400
15.	1.56523097	1.60832191	-0.28965411	-0.09853309	1.47821832	-0.01894193
20.	2.29101062	3.08019924	-0.18033580	-0.16826841	1.45804666	-0.02755640
25.	3.27289152	5.08383322	-0.12905081	-0.04876760	1.36255705	-0.02694210
30.	4.75346899	8.01987553	-0.11021830	0.07329880	1.27762151	-0.02379070
35.	6.38257074	11.34162998	-0.11536361	0.18502690	1.19817543	-0.02225230
40.	8.19034481	14.95168304	-0.13945481	0.33056101	1.09263945	-0.01535880
45.	10.10153675	18.24065590	-0.15167122	0.32884392	0.98021883	-0.00806530
50.	12.05888081	21.13071823	-0.63666672	-0.86279988	0.88286662	-0.02290000
55.	13.87952900	23.28932762	-0.67033333	-0.91836643	0.80779982	-0.02693330
60.	15.38778400	23.50570679	-0.70610005	-0.90546644	0.74519992	-0.03140000
65.	16.57082939	22.82673836	-0.66534930	-0.85651791	0.72979993	-0.03920000
70.	17.47751617	21.31255150	-0.60416669	-0.80513322	0.78160000	-0.04700000
75.	18.27329254	19.69387436	-0.53293318	-0.88579977	0.83730000	-0.05510000
80.	18.81641197	17.95610619	-0.43096662	-1.00873363	0.90259981	-0.06323330
85.	19.19553185	15.97756100	-0.33423331	-1.08876669	0.87936670	-0.07076660
90.	19.34318352	13.97480488	-0.24136649	-1.18280005	0.75236660	-0.07374840
95.	19.18273163	11.77008533	-0.22143321	-1.17920017	0.44493330	-0.06866660
100.	18.76361465	9.39192963	-0.19630000	-1.17696667	0.01780000	-0.05746660
105.	18.46707916	6.58396721	-0.18546671	-1.21649981	-0.51539987	-0.04826660
110.	17.72482300	3.61576509	-0.22123331	-1.23803329	-1.05813324	-0.03976660
115.	16.73280716	1.22308815	-0.21579990	-1.21343315	-1.52926660	-0.03333330
120.	15.50263309	-0.60406011	-0.26463330	-1.19613338	-1.90513325	-0.02493330
125.	14.28767872	-2.11264610	-0.16323319	-1.29023325	-2.23113322	-0.01953330
130.	12.98503494	-3.13677430	-0.12999980	-1.19590020	-2.48496652	-0.01550000
135.	11.44309807	-4.03951645	-0.12063330	-1.20953310	-2.70466638	-0.01048940
140.	9.16853523	-4.27358150	-0.15063331	-1.50233328	-2.91943336	-0.00901600
145.	6.63703823	-3.84713483	-0.11289990	-1.56529975	-3.18787527	-0.00939250
150.	4.51449919	-2.11820030	-0.22332501	-1.33132505	-3.35480022	-0.01042500
155.	3.08742642	-0.79920024	-0.29177499	-0.94435006	-3.43617487	-0.01262300
160.	1.99688208	0.21950179	-0.33232480	-0.58225000	-3.38617516	-0.01323090
165.	1.32182479	0.78258741	-0.29872501	-0.42717502	-3.24482775	-0.01161750
170.	0.83304882	0.89055330	-0.23577490	-0.33840001	-3.12769675	-0.00813070
175.	0.46436840	0.63133901	-0.13667500	-0.12282500	-3.04522419	-0.00451870
180.	0.10189130	0.11776370	0.00830000	-0.00217500	-3.03149033	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.05
PHI= 360.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00098010	-0.01363260	-0.05464150	0.03722670	1.35000241	-0.01380670
5.	0.47563979	0.11739990	-0.05184000	0.09568001	1.42264044	-0.00853950
10.	0.94981229	0.98603624	-0.09392810	0.05579620	1.50306320	-0.01075450
15.	1.55023098	2.38315225	-0.27190602	-0.01603310	1.48083854	-0.01744190
20.	2.27101064	4.78841829	-0.54959565	-0.03999710	1.45687914	-0.02555640
25.	3.16872764	7.43851233	-0.91288990	0.00873241	1.38648200	-0.03400960
30.	4.61553860	10.72480774	-1.34719992	0.27049050	1.30949044	-0.04608860
35.	6.62716436	13.97668552	-1.73762822	0.43312824	1.17740631	-0.05628760
40.	8.81993294	17.12085724	-1.94918764	0.61452276	1.03608990	-0.06399170
45.	10.76704502	19.78233528	-2.01684141	0.83898151	0.88004220	-0.06944350
50.	12.75214005	22.42291641	-1.87580001	0.46690002	0.78969991	-0.11427460
55.	14.64654160	24.13117981	-1.87820005	0.38413343	0.64670002	-0.12342130
60.	15.82602978	25.30958748	-1.88448930	0.08956462	0.53513807	-0.13306670
65.	16.91235161	25.53701019	-1.84377837	-0.15550280	0.49622130	-0.14601849
70.	17.81115341	25.12155342	-1.79459202	-0.78846222	0.47226271	-0.15471530
75.	18.61220741	22.70461273	-1.70041859	-0.82650125	0.73563153	-0.16533051
80.	19.69672585	20.78133583	-1.63089001	-1.00538790	0.91199732	-0.17891860
85.	20.39053345	18.12383652	-1.52159262	-1.12069941	0.88306141	-0.18118210
90.	20.42308235	15.51892090	-1.43087304	-1.07595420	0.71813643	-0.17985900
95.	20.06967735	12.96901703	-1.37875104	-1.04314303	0.34837520	-0.17895651
100.	19.34770775	10.00273895	-1.40577722	-1.01210415	-0.07308910	-0.17536479
105.	18.36783409	6.50028563	-1.58358777	-0.66033328	-0.50775582	-0.15559590
110.	17.47370529	3.53504610	-1.53533530	-0.52443683	-0.99862611	-0.14605330
115.	16.58337593	1.08386207	-1.49713850	-0.37234509	-1.46965766	-0.12971370
120.	15.73777962	-0.86634994	-1.41069150	-0.05973142	-1.87291825	-0.11699950
125.	14.81727123	-2.22156882	-1.23248100	-0.07432956	-2.18835473	-0.11131711
130.	13.50134850	-3.15141582	-1.33933163	-0.32210004	-2.44399214	-0.10121330
135.	12.04121780	-3.60404587	-1.36557055	-0.20732841	-2.71275997	-0.08433950
140.	9.94579029	-3.52210021	-1.29697430	-0.49460700	-2.96045876	-0.06374900
145.	7.57880878	-2.95690727	-1.07712483	-0.73711711	-3.21347022	-0.04598890
150.	5.75697231	-1.82509780	-0.87033308	-1.02254999	-3.35724521	-0.02617590
155.	4.02079725	0.03015178	-0.40389803	-1.05014992	-3.40481734	-0.00952230
160.	2.79532504	1.38604653	-0.07480220	-0.97603744	-3.41267133	-0.00456730
165.	2.02166009	1.55627024	0.75323290	0.97422028	-3.39885974	-0.01117870
170.	1.17805052	1.20570374	0.16015810	0.31414101	-3.29488993	-0.00635740
175.	0.54359931	0.90547180	-0.04510500	-0.01090030	-3.16689110	-0.00273080
180.	0.06683010	0.12975670	-0.00931500	-0.03784500	-3.03166986	-0.00001190

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.10
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.02780000	-0.02040000	-0.00110000	0.00260000	1.44790006	0.01560000
5.	0.52829993	0.93799990	-0.04870000	-0.00660000	1.56110001	0.01870000
10.	1.21919990	2.66989970	-0.13789999	0.05990000	1.68030000	0.00510000
15.	2.30940008	4.69169998	-0.39529982	0.35059991	1.68939996	-0.02010000
20.	3.80040002	6.65240002	-0.59379995	0.57469988	1.63619995	-0.04160000
25.	5.52490044	8.83729935	-0.79369992	0.63329995	1.53979993	-0.06280001
30.	7.27719975	11.21579933	-0.94040006	0.63519990	1.43210006	-0.08010000
35.	9.17250061	13.78160095	-1.08919990	0.62380004	1.33849990	-0.09390000
40.	11.31730080	16.20729828	-1.23830009	0.59060001	1.23729992	-0.10829990
45.	13.04490089	18.52640152	-1.37209988	0.50109994	1.08699965	-0.11870000
50.	14.63689995	20.64459991	-1.49839985	0.35450003	0.90539992	-0.12860000
55.	15.99210072	22.45270157	-1.62469983	0.28400001	0.78289992	-0.13779999
60.	17.22409821	24.11647034	-1.69239938	-0.05665308	0.69935721	-0.15081750
65.	18.12709808	25.14799500	-1.71696746	-0.32764736	0.68033201	-0.16392779
70.	18.78693771	25.49973488	-1.66764534	-1.09764349	0.60419410	-0.17662290
75.	19.77522469	24.07783890	-1.51883316	-1.01439619	0.94685501	-0.18974371
80.	21.09867477	22.55949783	-1.42037964	-1.17171192	1.06710005	-0.20807540
85.	21.76461411	20.86925507	-1.26659834	-1.34562373	0.91648370	-0.21167791
90.	21.80130768	18.88155937	-1.16130912	-1.30585909	0.60263401	-0.21028860
95.	21.54044724	16.50678444	-1.15042675	-1.27221429	0.16976300	-0.20926340
100.	20.75965881	13.49752522	-1.21271586	-1.33115637	-0.24533360	-0.20444719
105.	19.46639252	8.79339218	-1.29774785	-1.26810002	-0.65848380	-0.17784390
110.	18.30999947	6.28224087	-1.28800285	-1.02768016	-1.12286782	-0.16817990
115.	17.27751923	4.16590834	-1.27570772	-0.91176546	-1.57147455	-0.14962700
120.	16.34311867	2.77374792	-1.28137040	-0.79324698	-1.94473386	-0.13552399
125.	15.35721588	1.52122414	-1.21246147	-0.49179447	-2.24384212	-0.12791680
130.	14.07997990	0.42021990	-1.05639994	-0.41540003	-2.50369978	-0.11722001
135.	12.57560253	-0.41089943	-1.02035630	-0.25993600	-2.78435183	-0.10154800
140.	10.76382256	-1.02932918	-0.87892020	-0.08331059	-3.05998755	-0.07754000
145.	8.29765987	-1.40068138	-0.79649955	-0.21698940	-3.30352688	-0.05298520
150.	5.75554180	-1.49233162	-0.79641348	-0.82899994	-3.45995760	-0.03300000
155.	3.61478615	-1.20430577	-0.49936402	-0.79233336	-3.52134848	-0.01405540
160.	2.38929510	-0.18898641	-0.22600000	-0.78244996	-3.54650688	-0.00802310
165.	1.56172192	0.59383899	0.95763153	1.48155963	-3.56474590	-0.01579890
170.	0.85348201	0.34471321	0.22743340	0.42025441	-3.45876598	-0.00786720
175.	0.38727760	0.07741180	-0.05734010	-0.03313480	-3.33482218	-0.00248220
180.	0.01958000	-0.05173990	-0.00918000	-0.04620000	-3.19759989	-0.00000710

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FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.10
PHI= 45.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	-0.02890000	0.05990000	-0.00240000	-0.05130000	1.43030000	0.01510000
5.	0.50610000	0.82209992	-0.03240000	-0.12040000	1.53230000	0.01390000
10.	1.11710000	2.25070000	0.02139990	-0.27220002	1.70469975	0.01260000
15.	2.12869978	4.07439995	0.05589999	-0.33959991	1.66909993	0.01090000
20.	3.50540018	6.03670025	0.00290000	-0.31950000	1.61529994	0.00360000
25.	5.22060061	8.15410042	-0.10230011	-0.13580000	1.53689992	-0.00980000
30.	6.99010038	10.23399925	-0.16560002	0.04520001	1.41459990	-0.03670000
35.	8.94449997	12.43580151	-0.13150010	0.23349991	1.30789995	-0.06410000
40.	10.68149853	14.66790009	-0.02780008	0.44199991	1.19799995	-0.08450000
45.	12.33839989	16.56750107	0.05739981	0.51269996	1.06170011	-0.11010000
50.	13.88349819	18.13621521	0.20440000	0.62129998	0.96719992	-0.14789991
55.	15.22150040	20.03502274	0.35060000	0.70860010	0.90079981	-0.19790000
60.	16.35548019	21.63415146	0.46529993	0.77071267	0.86622912	-0.22677900
65.	17.40612411	22.48395157	0.58359998	0.80349982	0.82404172	-0.24281731
70.	18.13909912	22.14680099	0.71409583	0.38219571	0.83058351	-0.25124791
75.	19.10852623	21.04393196	0.68899983	0.47718269	1.05574596	-0.25464349
80.	20.24629211	19.63626289	0.67212832	0.39290273	1.12964940	-0.26269800
85.	20.86820221	18.28350067	0.66299993	0.48192555	0.95044822	-0.26819232
90.	21.02096558	16.76965332	0.61487365	0.62512356	0.66011882	-0.26781890
95.	20.69359970	14.84750938	0.55594814	0.67563176	0.23165250	-0.26682800
100.	20.01598358	12.58320332	0.47529984	0.68013149	-0.22827540	-0.26438391
105.	18.85902405	8.61827755	0.53769982	1.12487102	-0.65978891	-0.26351541
110.	17.89553261	6.14148855	0.49219990	1.26440239	-1.14557254	-0.25243202
115.	17.17854691	4.19142008	0.41508824	1.45650029	-1.50999975	-0.23987000
120.	16.43328285	2.65340018	0.28014338	1.55867326	-1.89030004	-0.22258919
125.	15.31526279	1.33678520	0.36593026	1.21181762	-2.22249985	-0.19893560
130.	13.75992012	0.31529993	0.30837989	1.16849995	-2.51770020	-0.17666000
135.	11.85666466	-0.66240305	0.13710004	1.05649602	-2.78337622	-0.15188000
140.	9.43453121	-1.39951527	0.20697591	0.83930004	-3.02043343	-0.13030000
145.	7.13812113	-1.93087757	0.26471311	0.29932982	-3.27477169	-0.10761931
150.	5.15900040	-2.04489994	0.09620930	0.29959992	-3.45709991	-0.07750000
155.	3.45177102	-1.77429998	-0.09926340	0.03510000	-3.54866719	-0.04911150
160.	2.02676391	-1.21346354	-0.31552520	-0.69589996	-3.56198382	-0.02736050
165.	1.38383675	-0.55305392	-0.66378272	-1.35860002	-3.53357077	-0.01390920
170.	0.86882931	-0.28080100	-0.07002410	-0.46987230	-3.44008875	-0.00835500
175.	0.38366130	0.07047110	-0.00885960	-0.34752911	-3.33847904	-0.00479200
180.	0.02548000	0.07610000	-0.00278000	-0.03318000	-3.19758320	-0.00000870

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.10
PHI= 90.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.01580000	0.00720000	-0.02770000	-0.00280000	1.43079984	0.01540000
5.	0.52260000	0.85759991	-0.03830000	-0.03950000	1.55599976	0.00865000
10.	1.07249975	2.12720013	-0.02040000	-0.18269999	1.74780011	0.00570000
15.	2.16260004	4.06939983	-0.01720000	-0.36759990	1.73239994	0.00215000
20.	3.65570021	6.07610035	-0.02510000	-0.47610000	1.69809985	-0.00330000
25.	5.26500034	8.25650024	-0.08120000	-0.36819991	1.63319993	-0.01075000
30.	7.00819969	10.55410004	-0.14730000	-0.18529990	1.55999994	-0.01583110
35.	8.78079987	12.80299854	-0.20840000	-0.15170000	1.44350004	-0.01898370
40.	10.63769913	15.03019905	-0.23960000	-0.13280000	1.31990004	-0.02193000
45.	12.83410072	17.17359924	-0.25989991	-0.12430000	1.17490005	-0.02430770
50.	14.45589924	19.08840179	-0.27560002	-0.11650001	1.05929995	-0.02556870
55.	15.75420094	20.65650177	-0.28949991	-0.10740000	0.89389932	-0.02784790
60.	16.54676056	21.87469864	-0.26510572	-0.08190410	0.79296070	-0.02918940
65.	17.61199570	22.59730148	-0.25726560	-0.04687169	0.73251861	-0.03095670
70.	18.36119652	22.50429916	-0.21114001	-0.01654950	0.74351972	-0.03163200
75.	19.04361343	21.39100075	-0.22595820	-0.01172189	0.89128441	-0.03292170
80.	20.52997971	20.41867065	-0.26917920	-0.01546520	1.09340000	-0.03735680
85.	21.44357300	19.18607712	-0.26166311	-0.02615450	0.96114862	-0.03851650
90.	21.70169067	17.71173668	-0.23647451	0.00003731	0.65287870	-0.03677490
95.	21.26890182	15.60911560	-0.25281432	-0.04053129	0.27015081	-0.02781310
100.	20.36343956	11.62669849	-0.26422760	-0.08852080	-0.09628540	-0.02770190
105.	19.11799812	7.87720108	-0.30790001	0.00658450	-0.56219572	-0.02733140
110.	17.95287132	5.31925249	-0.31380001	-0.04302900	-1.05111790	-0.02708310
115.	17.06261444	3.32565546	-0.30598149	0.30026799	-1.54073465	-0.02968800
120.	16.24208260	1.83552134	-0.36429882	0.17899829	-1.90837193	-0.03321410
125.	15.23997974	0.62741989	-0.28672001	0.18185510	-2.22156000	-0.03580000
130.	13.97345924	-0.42093623	-0.26877120	0.20540769	-2.51358509	-0.03618820
135.	12.22912502	-1.20636559	-0.28364420	0.63019991	-2.75524235	-0.03311240
140.	10.03320694	-1.85240674	-0.12596920	1.09050000	-3.02452278	-0.02702650
145.	7.76782799	-2.25699830	-0.14258561	0.78059995	-3.27987576	-0.01687350
150.	5.71290016	-2.31502008	-0.16990000	0.14020000	-3.46929979	-0.01320000
155.	4.00495958	-1.98912108	-0.18483500	0.23653340	-3.56925678	-0.01200000
160.	2.65656185	-1.43420017	-0.40909880	-0.62930000	-3.59107399	-0.00774420
165.	1.77880001	-0.66694152	-1.43329465	-2.15807748	-3.58321190	-0.00103020
170.	0.98309737	-0.33693561	-0.40395671	-0.25328100	-3.46516037	-0.00342550
175.	0.39359081	0.00724330	0.05290000	-0.04122680	-3.33377838	-0.00190410
180.	0.00888000	-0.02272000	0.01590000	0.01230000	-3.20194483	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.10
PHI= 135.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.07390000	0.10690000	-0.04510000	0.08800000	1.43589985	0.01500000
5.	0.48199990	0.95029992	-0.01660000	0.02200000	1.53590012	0.00785000
10.	1.00599992	2.31290007	-0.07349990	0.01810000	1.71850002	0.00280000
15.	2.10379982	4.03590012	-0.15779980	-0.14319991	1.69949985	0.00115000
20.	3.49280024	6.00070000	-0.14109990	-0.28069991	1.65610003	0.01150000
25.	5.09070063	8.07460022	-0.15989989	-0.28969991	1.56550002	0.02065000
30.	6.79759979	10.18619919	-0.18789980	-0.41820005	1.46329975	0.04690000
35.	8.71419907	12.24650002	-0.19679993	-0.55149990	1.34850001	0.08715000
40.	10.43759918	14.18670082	-0.33730000	-0.68179995	1.21639991	0.10840000
45.	12.19370079	15.84939957	-0.91150010	-0.83870000	1.08189964	0.12135000
50.	13.70599842	17.38270187	-1.02300000	-0.98220003	0.99119991	0.13470000
55.	15.03749943	18.53089905	-1.03779984	-1.23950016	0.97420001	0.15775000
60.	16.22629929	19.41019821	-1.02630007	-1.34839988	0.89479983	0.17255001
65.	17.59040070	20.44089890	-1.01090002	-1.25049996	0.86479992	0.18734990
70.	18.73130035	20.79740143	-0.96620023	-1.24899995	0.89940000	0.19730000
75.	19.64820099	20.86989975	-0.93280011	-1.23660004	0.96799988	0.20215000
80.	20.51859856	20.69710159	-0.87329996	-1.18089986	0.94209993	0.20530000
85.	21.14039803	20.30130005	-0.80129975	-1.21310008	0.84019983	0.20404999
90.	21.25452995	18.99080086	-0.71840990	-1.24125564	0.66059983	0.20189990
95.	20.83429909	16.29010010	-0.64480007	-1.24070001	0.34149981	0.19899990
100.	20.06530190	12.83369923	-0.55989993	-1.18659997	-0.10410000	0.19399321
105.	19.06260109	9.43800068	-0.58669984	-1.27210009	-0.61580002	0.19027270
110.	18.12710190	6.50890064	-0.43680012	-1.32280016	-1.12459993	0.18510221
115.	17.06159973	4.19619989	-0.32920021	-1.60990000	-1.62789965	0.17664281
120.	15.92609882	2.55360007	-0.28330004	-1.70480001	-2.00649977	0.16218741
125.	14.61079884	1.18320000	-0.31039995	-1.57440031	-2.36709976	0.14500001
130.	13.07739925	0.20639980	-0.15289998	-1.26310015	-2.60239983	0.11380000
135.	11.27429962	-0.88560003	0.01489997	-0.95149976	-2.84569979	0.09220000
140.	9.19669914	-1.67580032	-0.15569982	-0.58029997	-3.12150002	0.06580000
145.	6.89660025	-2.12409997	-0.37349993	-0.20129991	-3.36490011	0.04300000
150.	4.70160007	-2.16959977	-0.29020000	-0.12539990	-3.53579998	0.02790000
155.	3.09910035	-2.07070017	0.00530000	-0.19530000	-3.58479977	0.00990000
160.	1.63690007	-1.87960005	-0.11270000	0.03090001	-3.55079985	0.00380000
165.	0.77939981	-0.96749991	-0.53890002	0.43840000	-3.50739980	0.00450000
170.	0.30469990	-0.43449980	-0.95400000	0.47830001	-3.45959997	0.00390000
175.	0.13699991	-0.21419990	-0.41880000	0.31070000	-3.34709978	0.00150000
180.	0.08070000	-0.09639990	-0.01170000	0.05630000	-3.19574380	0.00003000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.10
PHI= 180.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.05060000	0.06150000	-0.04860000	0.04710000	1.44019985	0.01500000
5.	0.46439990	1.07249975	-0.11250000	0.00470000	1.54020001	0.01070000
10.	1.13689995	2.89650035	-0.07940000	-0.14479999	1.69930005	0.01110000
15.	2.18319988	4.75559998	0.02610001	-0.67229986	1.70589995	0.01086950
20.	3.76760006	7.04469967	0.07270001	-0.93419993	1.65139985	0.01300000
25.	5.42640018	9.45030022	0.14169991	-0.91489995	1.56869996	0.01810000
30.	7.17669964	11.71409988	0.20009992	-0.92930001	1.46259975	0.02530000
35.	9.14550018	14.02429962	0.27579993	-0.99779981	1.36969995	0.03530000
40.	11.02930069	16.24390030	0.32959995	-1.12609994	1.24869990	0.04380000
45.	12.82439995	18.21409988	0.35749996	-1.18139994	1.10669994	0.05280000
50.	14.41200066	19.82609940	0.40299994	-1.09020007	0.96379977	0.06220000
55.	15.77190018	21.30699921	0.40639994	-1.00949991	0.87769991	0.07300000
60.	17.08000183	22.42269897	0.42339993	-0.90412432	0.82830000	0.07970000
65.	18.36449814	22.95420265	0.48079994	-0.72090006	0.84529990	0.08550000
70.	19.40019989	23.18180084	0.59020007	-0.42660001	0.83589977	0.09150000
75.	20.38129807	23.07180023	0.69290006	-0.14360002	0.82770002	0.09420000
80.	21.10760117	22.49860001	0.78440017	-0.03390002	0.81149977	0.09310000
85.	21.78759956	21.67160034	0.85860008	-0.00160015	0.78209990	0.09150000
90.	21.82419777	20.13089752	0.89970016	0.00409991	0.61080003	0.09199570
95.	21.56734848	17.23199844	0.83889997	0.05789995	0.23130000	0.09540000
100.	20.63080025	13.88419914	0.75730002	0.08120000	-0.17219990	0.10010000
105.	19.61370277	10.43090057	0.71319985	0.26410002	-0.66499990	0.10420001
110.	18.53840256	7.28490019	0.66230011	0.17899990	-1.08769965	0.10760000
115.	17.26849747	4.79509974	0.61949992	0.24030000	-1.58620000	0.10930000
120.	16.12640190	3.01539993	0.59990007	0.11489999	-1.97929990	0.10951731
125.	14.95640087	1.60059988	0.58360010	-0.02880007	-2.33909988	0.10759771
130.	13.79930019	0.57720006	0.50740004	-0.00470009	-2.61379981	0.10287230
135.	12.25220108	-0.23230010	0.48549992	0.32979992	-2.89419985	0.09550001
140.	10.35989952	-0.93060005	0.44009990	0.22449979	-3.13000035	0.07819990
145.	8.05049992	-1.33550000	0.32699990	0.06790000	-3.35519981	0.06109990
150.	5.77060032	-1.49879992	0.19839993	0.35839990	-3.50129986	0.04560000
155.	3.66810036	-1.45060003	0.08310001	0.36890000	-3.54770017	0.02430000
160.	2.41589975	-0.98170906	0.17340000	0.29800001	-3.55509996	0.01176800
165.	1.45559990	-0.29359999	0.10950000	0.14730000	-3.51380014	0.00522730
170.	0.82470000	-0.09970000	0.03130000	-0.01430000	-3.47400022	0.00216100
175.	0.29809991	-0.13789991	-0.00050000	-0.02870000	-3.36170030	0.00178320
180.	0.12599990	-0.07100000	0.02700000	0.00900000	-3.19699955	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.10
PHI= 225.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	-0.00130000	-0.11589990	-0.02500000	0.00530000	1.43750000	0.01490000
5.	0.40169990	0.87459987	-0.04220000	0.00610000	1.55900002	0.01365000
10.	1.00489986	2.47249985	0.07820000	-0.00330000	1.69409990	0.02220000
15.	2.10659981	4.35280037	0.22449991	-0.10909989	1.68109965	0.02725000
20.	3.46690011	6.43640041	0.06470000	0.14870000	1.59179986	0.02540000
25.	5.15240002	8.70800018	-0.19020000	0.77520001	1.48440003	0.01055000
30.	6.90830040	10.96089935	-0.36939982	0.80259991	1.37140012	0.00320000
35.	8.63050079	13.10729980	-0.43849999	0.38069999	1.27110004	-0.00015000
40.	10.39450073	15.10880184	-0.47680002	0.10430000	1.19089985	-0.00410000
45.	12.09169960	16.93040085	-0.51760000	-0.06880000	1.11700010	-0.00295000
50.	13.74250031	18.62390137	-0.55860001	-0.19210002	1.04609990	-0.00180000
55.	15.18429947	19.75979996	-0.62469989	0.07980000	0.98640001	-0.00405000
60.	16.30780029	20.53590012	-0.68160003	0.23690000	0.92739981	-0.00680000
65.	17.68479919	21.22019958	-0.63659996	0.27219990	0.88389993	-0.00925000
70.	18.67120171	21.45510101	-0.57529998	0.27029991	0.88720000	-0.01140000
75.	19.61770248	21.24189949	-0.50649983	0.26740000	0.96210003	-0.01405000
80.	20.41440010	20.78060150	-0.43719989	0.26439989	0.97270000	-0.01760000
85.	21.06320190	19.58640099	-0.36779991	0.26510000	0.86159992	-0.02125000
90.	21.23929977	17.49549866	-0.29449981	0.28543329	0.66880000	-0.02480000
95.	20.87840080	14.69939995	-0.29389979	0.38850001	0.32889980	-0.02075000
100.	20.04289818	11.69409943	-0.29760000	0.45129982	-0.11990000	-0.01540000
105.	19.09279823	8.80610085	-0.26950002	0.44060001	-0.65590000	-0.00930000
110.	18.14939880	6.18889952	-0.26079991	0.56540000	-1.16589975	-0.00390000
115.	17.24709892	4.27629995	-0.27179980	0.47522131	-1.64860010	0.00040000
120.	16.18700027	2.79469991	-0.26359981	0.65255702	-2.04010010	0.00341170
125.	15.04039955	1.43939996	-0.27770001	0.54969990	-2.38479996	0.00400000
130.	13.67069912	0.50829983	-0.20089990	0.49079981	-2.64710021	0.00220000
135.	11.87289906	-0.24780011	-0.22729981	0.02529979	-2.90399981	0.00060000
140.	9.80349922	-0.77930003	-0.37320000	-0.56947392	-3.13990021	-0.00760000
145.	7.52519941	-1.24089980	-0.33109990	-0.59380001	-3.36670017	-0.01380000
150.	5.54699993	-1.44900012	-0.27329990	-0.37459999	-3.52400041	-0.01900000
155.	3.72040009	-1.56319988	-0.21650000	-0.77759993	-3.57870007	-0.02070000
160.	2.31149983	-1.62589991	-0.15369990	-0.54390001	-3.56559992	-0.02830000
165.	1.20650005	-1.42009985	-0.10360000	-0.30070001	-3.46050000	-0.02240000
170.	0.58499992	-1.01889992	-0.05080000	-0.16890000	-3.36760020	-0.01451540
175.	0.25639990	-0.46069980	0.00490000	-0.15279990	-3.26879978	-0.00570000
180.	0.05400000	0.03699990	0.05199990	-0.02400000	-3.19699955	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.10
PHI= 270.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	-0.00130000	-0.09170000	0.40050000	0.02090000	1.44190001	0.01530000
5.	0.48240000	0.77149981	0.30179989	0.10250000	1.53499985	0.01870000
10.	1.07979965	2.37919998	0.20529990	0.09220000	1.71569991	0.02170000
15.	2.05929995	4.15590000	0.10630000	0.00750000	1.69210005	0.01810000
20.	3.45949984	6.10900068	0.01480000	-0.00960000	1.63909996	0.01700000
25.	5.06719971	8.22590065	-0.07250000	-0.03160000	1.53989995	0.01490000
30.	6.77950048	10.54400158	-0.15949990	-0.05589990	1.44530010	0.01230000
35.	8.50519943	12.84800053	-0.26249999	-0.08959990	1.33970010	0.00960000
40.	10.39069939	15.05849934	-0.37459999	-0.19139980	1.23930001	0.00680000
45.	12.16710091	17.00230026	-0.48220003	-0.27539989	1.10050011	0.00430000
50.	13.77069950	18.39329910	-0.58170003	-0.30789980	0.98899990	0.00180000
55.	15.13579941	19.57699966	-0.67649984	-0.33859992	0.91439992	-0.00040000
60.	16.40950012	20.54219818	-0.75399995	-0.37169990	0.86500001	-0.00290000
65.	17.81079865	21.18780136	-0.68840003	-0.44539982	0.86870003	-0.00920000
70.	18.93980217	21.48839951	-0.62009990	-0.51649994	0.88810003	-0.01550000
75.	19.83200073	21.11029816	-0.55210000	-0.58780003	0.93760002	-0.02230000
80.	20.62489891	19.64199829	-0.48430002	-0.67080003	0.95089990	-0.02920000
85.	21.20550156	17.71490097	-0.41819978	-0.72049975	0.86449993	-0.03860000
90.	21.57060051	15.63070011	-0.36720002	-0.74009991	0.68379992	-0.04930000
95.	21.03260040	12.87459850	-0.40179989	-0.64879978	0.35159990	-0.04610000
100.	20.17549896	10.17869949	-0.43589976	-0.54570001	-0.03040000	-0.03860000
105.	19.17949867	7.83970022	-0.43419993	-0.49569991	-0.51959991	-0.03020000
110.	18.23990059	5.79099941	-0.45759994	-0.30419987	-1.05339992	-0.02170000
115.	17.34710121	3.89266634	-0.49910003	-0.32079980	-1.58999991	-0.01280000
120.	16.33029938	2.41159511	-0.51079988	-0.09859979	-2.06739998	-0.00310000
125.	15.11960030	1.19700849	-0.54060000	-0.23427300	-2.36499977	0.00680000
130.	13.88639927	0.24369979	-0.47969982	-0.27289993	-2.63229990	0.02030000
135.	12.19089890	-0.60709900	-0.45870000	-0.81230003	-2.88429999	0.03200000
140.	9.92609978	-1.35859990	-0.54485982	-1.46120000	-3.12239981	0.02910000
145.	7.54940033	-1.84600008	-0.50019991	-1.28429985	-3.33020043	0.01880000
150.	5.59280014	-2.10028028	-0.45209980	-0.83699995	-3.50460005	0.00680000
155.	3.89229989	-2.09220004	-0.37349990	-1.17659998	-3.56720042	-0.00579380
160.	2.25469971	-1.92790008	-0.29470000	-0.88020003	-3.54570007	-0.00878180
165.	1.26929975	-1.40910006	-0.21529990	-0.53219998	-3.47870016	-0.00850000
170.	0.65319991	-0.95260000	-0.13710000	-0.31220001	-3.38749981	-0.00770000
175.	0.17720000	-0.46740001	-0.05860000	-0.14390001	-3.25970006	-0.00450000
180.	0.06160000	-0.04770000	0.02200000	-0.01940000	-3.19458723	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.10
PHI= 315.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.02100000	0.16209990	0.01710000	-0.05670000	1.43670011	0.01510000
5.	0.44159991	1.01859975	-0.09670000	0.05340000	1.54849994	0.01490000
10.	1.08690000	2.65159988	-0.36369991	0.25850001	1.71219993	0.00960000
15.	2.09980011	4.57689953	-0.66809994	0.39570001	1.68170011	-0.00500000
20.	3.38290000	6.39290047	-0.66869980	0.13729991	1.63569975	-0.01120000
25.	4.89330006	8.65629959	-0.58129990	-0.38259989	1.55149984	-0.01290000
30.	6.65130043	10.96579838	-0.56399989	-0.53869992	1.44809985	-0.01220000
35.	8.57589912	13.13659954	-0.58053990	-0.66339993	1.32879984	-0.01740000
40.	10.49869919	15.16789913	-0.59969991	-0.76509994	1.20330000	-0.02200000
45.	12.31019974	17.03659821	-0.62220001	-0.85459995	1.09679985	-0.02580000
50.	13.91869926	18.67670059	-0.65360004	-0.89829987	1.02239990	-0.02950000
55.	15.32830048	19.98149872	-0.68490005	-0.91989994	0.95319992	-0.03340000
60.	16.49150085	21.02730370	-0.72140002	-0.87629992	0.90719992	-0.03730000
65.	17.72589874	21.55609894	-0.65620005	-0.79527682	0.92409992	-0.04470000
70.	18.71910095	21.67779922	-0.55460000	-0.80219984	0.95089990	-0.05290000
75.	19.59770012	21.28820038	-0.45290002	-0.84619993	0.97239977	-0.06130000
80.	20.37400246	20.43909645	-0.35119990	-0.89100015	0.96289992	-0.06970000
85.	20.77059746	19.04610062	-0.24729998	-0.92260009	0.85000002	-0.07810000
90.	21.05709839	17.18759918	-0.14299999	-0.96059984	0.66960001	-0.08270000
95.	20.93512917	14.42729855	-0.14369988	-0.91819996	0.32049990	-0.07950000
100.	20.36089897	11.61070061	-0.16180000	-0.85639995	-0.12320000	-0.06960000
105.	19.44919968	9.18640041	-0.15150000	-0.87749994	-0.65179992	-0.05960000
110.	18.46779823	7.01800013	-0.17129980	-0.78919995	-1.17600012	-0.04890000
115.	17.52750206	5.06530046	-0.21109980	-0.89609993	-1.62459981	-0.03790000
120.	16.34570122	3.55699992	-0.23360001	-0.76139992	-1.99920011	-0.02680000
125.	15.12820053	2.15490007	-0.27930000	-0.96890002	-2.32049990	-0.02070000
130.	13.83409882	0.93180001	-0.22809979	-1.04460001	-2.58239985	-0.01620000
135.	12.01059818	-0.20530000	-0.21689990	-1.60049999	-2.81479979	-0.01113410
140.	9.66189957	-1.04869998	-0.32130000	-2.13049984	-3.03999996	-0.00737400
145.	7.50590038	-1.81730008	-0.30299991	-1.81129992	-3.28410006	-0.00595670
150.	5.31730032	-2.26459980	-0.32190001	-1.24750006	-3.44140029	-0.00440000
155.	3.71280050	-2.33539987	-0.35600001	-1.45330000	-3.52839971	-0.00541510
160.	2.24659991	-1.88080001	-0.35329980	-0.95929992	-3.51060009	-0.00560790
165.	1.10539985	-1.25759995	-0.31860000	-0.49489981	-3.39868450	-0.00489000
170.	0.56349993	-0.81579977	-0.25180000	-0.25260001	-3.29830003	-0.00320250
175.	0.28960001	-0.33350000	-0.14199990	-0.11240000	-3.20779991	-0.00157690
180.	0.10199990	0.09099990	0.02700000	0.00200000	-3.19699955	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.10
PHI= 360.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.02780000	-0.02040000	-0.00110000	0.00260000	1.44790006	0.01560000
5.	0.52829993	0.93799990	-0.04870000	-0.00660000	1.56110001	0.01870000
10.	1.21919990	2.66989970	-0.13789999	0.05990000	1.68030000	0.00510000
15.	2.30940008	4.69169998	-0.39529982	0.35059991	1.68939996	-0.02810000
20.	3.80040002	6.65240002	-0.59379995	0.57469988	1.63619995	-0.04160000
25.	5.52490044	8.83729935	-0.79369992	0.63329995	1.53979993	-0.06280001
30.	7.27719975	11.21579933	-0.94040006	0.63519990	1.43210006	-0.08010000
35.	9.17250061	13.78160095	-1.08919990	0.62380004	1.33849990	-0.09390000
40.	11.31730080	16.20729828	-1.23830009	0.59060001	1.23729992	-0.10829990
45.	13.04490089	18.52640152	-1.37209988	0.50109994	1.08699965	-0.11870000
50.	14.63689995	20.64459991	-1.49839985	0.35450003	0.90539992	-0.12860000
55.	15.99210072	22.45270157	-1.62469983	0.28400001	0.78289992	-0.13779999
60.	17.22409821	24.11647034	-1.69239938	-0.05665308	0.69935721	-0.15081750
65.	18.12709808	25.14799500	-1.71696746	-0.32764736	0.68033201	-0.16392779
70.	18.78693771	25.49973488	-1.66764534	-1.09764349	0.60419410	-0.17662290
75.	19.77522469	24.07783890	-1.51883316	-1.01439619	0.94685501	-0.18974371
80.	21.09867477	22.55949783	-1.42037964	-1.17171192	1.06710005	-0.20807540
85.	21.76461411	20.86925507	-1.26659834	-1.34562373	0.91648370	-0.21167791
90.	21.80130768	18.88155937	-1.16130912	-1.30585909	0.60263401	-0.21028860
95.	21.54044724	16.50678444	-1.15042675	-1.27221429	0.16976300	-0.20926340
100.	20.75965881	13.49752522	-1.21271586	-1.33115637	-0.24533360	-0.20444719
105.	19.46639252	8.79339218	-1.29774785	-1.26810002	-0.65848380	-0.17784390
110.	18.30999947	6.28224087	-1.28800285	-1.02768016	-1.12286782	-0.16817990
115.	17.27751923	4.16590834	-1.27570772	-0.91176546	-1.57147455	-0.14962700
120.	16.34311867	2.77374792	-1.28137040	-0.79324698	-1.94473386	-0.13552399
125.	15.35721588	1.52122414	-1.21246147	-0.49179447	-2.24384212	-0.12791680
130.	14.07997990	0.42021990	-1.05639994	-0.41540003	-2.50369978	-0.11722001
135.	12.57560253	-0.41089943	-1.02035630	-0.25993600	-2.78435183	-0.10154800
140.	10.76382256	-1.02932918	-0.87892020	-0.08331059	-3.05998755	-0.07754000
145.	8.2976587	-1.40068138	-0.79649955	-0.21698940	-3.30352688	-0.05298520
150.	5.75554180	-1.49233162	-0.79641348	-0.82899994	-3.45995760	-0.03300000
155.	3.61478615	-1.20430577	-0.49936402	-0.79233336	-3.52134848	-0.01405540
160.	2.38929510	-0.18898641	-0.22600000	-0.78244996	-3.54650688	-0.00802310
165.	1.56172192	0.59383899	0.95763153	1.48155963	-3.56474590	-0.01579890
170.	0.85348201	0.34471321	0.22743340	0.42025441	-3.45876598	-0.00786720
175.	0.38727760	0.07741180	-0.05734010	-0.03313480	-3.33482218	-0.00248220
180.	0.01958000	-0.05173990	-0.00918000	-0.04620000	-3.19759989	-0.00000710

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.20
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.02780000	0.06220000	-0.00110000	0.00260000	1.45809984	0.01560000
5.	0.53829992	0.94610000	-0.01950000	-0.00160000	1.58969975	0.01870000
10.	1.23919988	2.59910011	-0.07270000	0.06990000	1.72729981	-0.00430000
15.	2.33940005	4.54209948	-0.29409981	0.36559990	1.75490010	-0.02570000
20.	3.84039998	6.42400026	-0.45659992	0.59469992	1.72009993	-0.04300000
25.	5.57490063	8.53000069	-0.62049991	0.65829992	1.64220011	-0.07210001
30.	7.33719969	10.82960033	-0.73129994	0.66519994	1.55289996	-0.09120000
35.	9.24250031	13.31660080	-0.84410006	0.65880001	1.47779965	-0.10699990
40.	11.39730072	15.66349983	-0.95720011	0.63060004	1.39500010	-0.12320001
45.	13.13490105	17.90359879	-1.05509996	0.54609990	1.26320004	-0.13549989
50.	14.73690033	19.94300079	-1.14539993	0.40450001	1.09999990	-0.14720000
55.	16.10210037	21.67230034	-1.23579991	0.12608978	0.99589992	-0.15830000
60.	17.69541740	23.33123970	-1.28986716	-0.11288929	0.85482651	-0.16499621
65.	18.56897545	24.74882317	-1.32463193	-0.47018591	0.76561832	-0.16609439
70.	19.50316238	24.32225037	-1.33362710	-0.77726674	0.87775671	-0.17780460
75.	20.53181648	22.78179932	-1.25855148	-0.90830624	1.14267135	-0.20438771
80.	21.66716385	21.53330994	-0.99840015	-0.90024441	1.08517432	-0.22502249
85.	22.30628967	20.58297348	-0.74086612	-0.77155161	0.84644473	-0.23402941
90.	22.56439590	19.37760544	-0.67539608	-0.70976472	0.56827521	-0.23760000
95.	22.49463844	17.71856117	-0.67092538	-0.71477550	0.17867330	-0.23628160
100.	21.89715004	15.65983009	-0.81019981	-1.00380278	-0.24317300	-0.22080840
105.	20.92706871	13.29448128	-0.90525585	-1.17098105	-0.66280502	-0.17949720
110.	19.84081078	10.21091461	-0.92275721	-1.23068094	-1.11681414	-0.15465100
115.	18.60599899	7.51442051	-0.95872414	-1.07959104	-1.56092775	-0.14524800
120.	17.20965576	5.04003525	-1.22662175	-0.90952432	-1.93740535	-0.13887569
125.	15.93333435	3.40667224	-1.34043586	-0.93870884	-2.24654722	-0.13297319
130.	14.58704948	2.33958316	-1.15416026	-0.90469432	-2.56372762	-0.12607430
135.	13.01653767	1.56234264	-0.97989762	-0.58799994	-2.84075761	-0.11120000
140.	11.10437679	0.91767204	-0.65810263	-0.58279991	-3.08467865	-0.08788710
145.	8.95429134	0.66719789	-0.62374467	-0.13519979	-3.30956602	-0.06307120
150.	6.58683443	-0.86438662	-0.52718174	-0.26433992	-3.48379445	-0.03914950
155.	4.44700050	-1.32952774	-0.29460001	0.36145452	-3.56470013	-0.02010000
160.	2.84932113	-0.99540591	0.22399999	1.41471708	-3.57849979	-0.01019600
165.	1.82221973	-0.32781389	0.97212130	1.75782847	-3.60454512	-0.01190280
170.	1.17558424	-0.15368190	0.59024930	0.96752661	-3.53000975	-0.01200930
175.	0.35827750	-0.13958471	-0.05688760	0.12594381	-3.41838121	-0.00239430
180.	0.03652000	0.01439990	-0.03798000	-0.14692000	-3.31917834	-0.00002290

ORIGINAL PAGE IS
OF POOR QUALITY

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.20
PHI= 45.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00900000	0.05990000	-0.00240000	-0.05130000	[illegible]830000	0.01510000
5.	0.57159990	0.92519993	-0.01990000	-0.11540000	1.[illegible]669975	0.01390000
10.	1.21029985	2.46670008	0.04639990	-0.26220000	1.[illegible]4990010	0.01260000
15.	2.24949980	4.40330029	0.09340000	-0.32459989	1.73510003	0.01090000
20.	3.65380001	6.47859955	0.05290000	-0.29950002	1.70210004	0.00360000
25.	5.39669991	8.70890045	-0.03980011	-0.11080000	1.64450002	-0.00980000
30.	7.19380045	10.90169907	-0.09060000	0.07519999	1.54300010	-0.03670000
35.	9.17589951	13.21640015	-0.04400012	0.26849991	1.45709991	-0.06410000
40.	10.94050026	15.56139851	0.07219991	0.48199990	1.36800003	-0.08450000
45.	12.62510014	17.57389832	0.16989982	0.55769992	1.25250006	-0.11010000
50.	14.19779968	18.84149933	0.32940000	0.67129999	1.17880011	-0.14789991
55.	15.56349850	19.77980042	0.48810002	0.76360011	1.07859945	-0.19790000
60.	16.70568466	20.71374130	0.61329997	0.72680622	1.01729321	-0.21497710
65.	17.74189758	21.43504333	0.74609995	0.65347856	0.97681183	-0.23027611
70.	18.57522583	20.77565002	0.82442141	0.54319453	1.05478501	-0.23837040
75.	19.93591309	19.58311844	0.80609983	0.51868784	1.19694781	-0.24478520
80.	20.84156418	18.95331573	0.80983311	0.58083290	1.10101664	-0.25306660
85.	21.25935364	18.61291504	0.79106742	0.69205952	0.85923982	-0.25687382
90.	21.31229782	17.60359955	0.78863966	0.73037994	0.59330022	-0.25759590
95.	21.08670044	16.26279449	0.74901211	0.72358793	0.19688851	-0.25496790
100.	20.73189926	14.80072021	0.64851570	0.65141171	-0.24815930	-0.25082791
105.	20.04840088	12.8007669[illegible]	0.62655574	1.08003163	-0.68698752	-0.25130391
110.	19.16829872	10.05377769	0.50506103	1.09664498	-1.14439034	-0.24009989
115.	17.99640083	6.49695539	0.49275106	1.47633803	-1.55187654	-0.22849999
120.	16.86363602	4.34778547	0.43520570	1.48648667	-1.92472565	-0.21353960
125.	15.67357635	3.09843230	0.38597655	0.93747723	-2.25697803	-0.19452320
130.	14.33597946	2.34592009	0.35057992	0.75140005	-2.57605982	-0.16890000
135.	12.49055862	1.63553715	0.32338411	1.07411993	-2.85795593	-0.14546800
140.	10.14113426	0.63079441	0.26548821	1.04885709	-3.08906460	-0.12471711
145.	7.75145340	-0.54439825	0.23527211	0.67763215	-3.30411410	-0.10437771
150.	5.68090010	-1.57300007	0.12389990	0.39000002	-3.47079992	-0.07840000
155.	3.96990013	-2.09728217	-0.03856540	0.42479992	-3.59780693	-0.05525310
160.	2.65544510	-1.75534546	-0.16978130	0.24488920	-3.58265591	-0.02878890
165.	1.65626526	-1.05332375	-0.43169990	-0.55860001	-3.58576488	-0.01467060
170.	0.84184140	-0.66504371	-0.27235410	0.17516169	-3.51298761	-0.00736120
175.	0.34969240	-0.14538200	-0.01690000	0.01836620	-3.41209006	-0.00499920
180.	0.02998000	0.07932000	-0.01730000	-0.09379990	-3.31702900	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1769.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.20
PHI= 90.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.01580000	0.11970000	-0.02770000	-0.00280000	1.43079984	0.01540300
5.	0.52260000	0.80049992	-0.03830000	-0.06350000	1.55599976	0.00865000
10.	1.07249975	1.98060012	-0.00780000	-0.22780000	1.74780011	0.00570000
15.	2.16260004	3.83330011	0.00150000	-0.43380001	1.73239994	0.00215000
20.	3.65570021	5.75040007	-0.00020000	-0.56349987	1.69809985	-0.00330000
25.	5.26500034	7.84130001	-0.05020000	-0.47669980	1.63319993	-0.01075000
30.	7.00819969	10.04929924	-0.11010000	-0.31489992	1.55999994	-0.01448450
35.	8.78079987	12.20870018	-0.16509999	-0.30239999	1.44350004	-0.01671980
40.	10.63769913	14.34630013	-0.19010000	-0.30469999	1.31990004	-0.01904810
45.	12.83410072	16.40019989	-0.20420001	-0.31729999	1.17490005	-0.02110150
50.	14.45589924	18.22539902	-0.21380000	-0.33059981	1.05929995	-0.02210000
55.	15.75420094	19.70399857	-0.22150001	-0.34269992	1.00699985	-0.02345000
60.	17.05554581	20.83309174	-0.22859861	-0.33576640	0.95842302	-0.02393930
65.	17.97639465	21.66177559	-0.22989079	-0.22272420	0.85906821	-0.02498720
70.	18.98260307	20.94481277	-0.20280600	-0.15332840	0.97410452	-0.03119140
75.	19.96333694	20.06697464	-0.22299869	-0.08486030	1.10159993	-0.03598150
80.	21.04407120	19.38155746	-0.23381650	-0.02627160	1.09340000	-0.03674290
85.	21.59576133	18.73047447	-0.19824451	0.07253409	0.90545022	-0.03654480
90.	21.67749756	17.70989990	-0.21914801	0.06535199	0.60525632	-0.03605200
95.	21.41830063	16.35470200	-0.23053192	0.02920399	0.24942040	-0.02889130
100.	20.97711754	14.21390438	-0.25039601	-0.00219600	-0.12533550	-0.02850800
105.	20.49560165	11.92208004	-0.23129579	-0.07271610	-0.60630327	-0.02698200
110.	19.34585571	8.76697445	-0.28825521	0.01211560	-1.09115553	-0.02340150
115.	18.19239807	6.23687172	-0.15455960	0.32564592	-1.53222871	-0.02911480
120.	17.18545914	4.47880411	-0.24968481	0.38035780	-1.93019283	-0.03276360
125.	16.03675842	3.43061638	-0.27961570	0.32488871	-2.25250340	-0.03602330
130.	14.52189827	2.58382010	-0.32900003	0.47759980	-2.56864023	-0.03586000
135.	12.74129486	1.74746060	-0.33175370	0.41782311	-2.85583591	-0.03282400
140.	10.45695686	0.65748155	-0.33902982	0.39466920	-3.09981173	-0.02929680
145.	8.01246262	-0.38471001	-0.23153010	0.18059990	-3.32189226	-0.01812840
150.	5.79889965	-1.30500031	0.15290001	-0.12340000	-3.50220037	-0.01470000
155.	4.13576698	-1.68893838	0.12054560	0.37968433	-3.61593699	-0.01356920
160.	2.71711874	-1.45141470	-0.13298070	0.47285062	-3.62344027	-0.00855260
165.	1.83538270	-0.94749212	-0.93679851	-1.41674960	-3.62987041	-0.00343260
170.	0.87783051	-0.67100137	-0.20186220	-1.10579991	-3.52317524	-0.00400770
175.	0.36795300	-0.16810000	0.02031180	0.06992780	-3.41214132	-0.00289360
180.	0.05998000	0.17499980	0.00252000	-0.02108000	-3.32037401	0.00000000

ORIGINAL PAGE IS
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FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.20
PHI= 135.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.06520000	0.39330000	-0.04510000	0.00000000	1.43589985	0.01500000
5.	0.51830000	0.86000001	-0.01210000	-0.00530000	1.55299985	0.00785000
10.	1.07999992	2.14589977	-0.06390000	-0.03210000	1.74939990	0.00280000
15.	2.21540022	3.79230022	-0.15279990	-0.21720001	1.73239994	0.00115000
20.	3.64209986	5.68040037	-0.13409980	-0.37760001	1.69899964	0.01150000
25.	5.27750029	7.67770004	-0.15109989	-0.40949991	1.61829984	0.02065000
30.	7.02210093	9.71260071	-0.17729992	-0.56090003	1.52600002	0.04690000
35.	8.97540092	11.69619942	-0.18429989	-0.71710002	1.42120004	0.08715000
40.	10.73649979	13.55979919	-0.32289991	-0.87030005	1.29890001	0.10840000
45.	12.52920055	15.14579964	-0.89529985	-1.05009997	1.17439985	0.12135000
50.	14.07920170	16.60250092	-1.00500000	-1.21649992	1.09360003	0.13470000
55.	15.44829941	17.67399979	-1.01789987	-1.49670005	1.08649993	0.15775000
60.	16.58869743	18.45330048	-1.00769997	-1.63119996	1.01699984	0.18469991
65.	17.82009888	19.50930023	-1.01570010	-1.47629988	0.97119993	0.19564991
70.	18.88740158	20.02619934	-0.98390007	-1.40339994	0.98239982	0.20590000
75.	19.72880173	20.25930023	-0.97289985	-1.33140016	1.02760005	0.21115001
80.	20.52660179	20.24700165	-0.93109995	-1.20860016	0.97839981	0.20996310
85.	21.25659752	20.01179886	-0.87679988	-1.17260003	0.85299993	0.20565000
90.	21.55130005	19.48129845	-0.80610013	-1.16839981	0.65009981	0.20189990
95.	21.39273643	17.64579773	-0.72360003	-1.14330006	0.32969990	0.19915000
100.	21.01950073	15.29669952	-0.64130020	-1.11380017	-0.11139990	0.19954000
105.	20.34450150	12.40840054	-0.57409996	-1.31979990	-0.61879992	0.19899991
110.	19.48669815	9.58669949	-0.34850013	-1.29009998	-1.12329996	0.19279991
115.	18.39880180	6.58130026	-0.25100011	-1.79770029	-1.62220001	0.18549991
120.	17.02563962	3.70820022	-0.22860003	-1.91010010	-1.99650002	0.16930000
125.	15.77889919	2.14910007	-0.16369992	-1.57940018	-2.36030006	0.14500001
130.	14.45219994	1.10000014	-0.03759992	-1.32029998	-2.59899998	0.11380000
135.	12.82490063	0.53569990	-0.03119990	-1.26090002	-2.84569979	0.09220000
140.	10.82299995	0.02329990	-0.07330000	-0.89200014	-3.12480044	0.06580000
145.	8.29870033	-0.74729991	-0.13249990	-0.46520001	-3.37150002	0.05119990
150.	6.08099985	-1.40500021	0.00680000	-0.19149992	-3.54580021	0.03760000
155.	4.26889944	-1.75060010	0.26100001	-0.13489991	-3.59310007	0.01790000
160.	2.63420010	-1.76980007	0.05190000	-0.27270001	-3.55730009	0.00380000
165.	1.40419996	-0.96780002	-0.41540000	-0.47919992	-3.51219988	-0.00231900
170.	0.75709993	-0.44489980	-0.87169993	-0.45330000	-3.48193598	-0.00220370
175.	0.36690000	-0.23480000	-0.37760001	-0.03490000	-3.39519978	-0.00293110
180.	0.11099990	-0.11099990	-0.01200000	0.05599990	-3.31699944	0.00000000

ORIGINAL PAGE IS
OF POOR QUALITY

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.20
PHI= 180.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.05060000	0.06150000	-0.04860000	0.04710000	1.44019985	0.01500000
5.	0.51559991	1.02489984	-0.08420000	-0.01900000	1.56299984	0.01070000
10.	1.23490000	2.79820013	-0.01159600	-0.19240001	1.71869993	0.01110000
15.	2.32799983	4.60660028	0.10879990	-0.74380004	1.73480010	0.01465000
20.	3.95919991	6.84490013	0.18259999	-1.02970004	1.68980002	0.01820000
25.	5.66480064	9.19980049	0.27879992	-1.03429997	1.61669981	0.02354090
30.	7.46190023	11.41280079	0.36439991	-1.07259989	1.51999974	0.03060000
35.	9.47739983	13.67220116	0.46739992	-1.16499996	1.43670011	0.03920189
40.	11.40809917	15.84119987	0.54839981	-1.31719983	1.32509995	0.04790000
45.	13.24990082	17.76060104	0.60360003	-1.39630008	1.1926991	0.05740000
50.	14.88430119	19.32180023	0.67629981	-1.32909989	1.05929995	0.06740000
55.	16.29100037	20.75200081	0.72981840	-1.27230000	0.98269981	0.07870000
60.	17.90189934	21.80209160	0.75110006	-1.17670000	0.94000000	0.08580000
65.	19.00099754	22.75629997	0.81740004	-0.91080004	0.93809992	0.09080000
70.	20.04339981	23.12669945	0.92960006	-0.53490001	0.90789992	0.09610000
75.	20.93110085	23.15940094	1.03509998	-0.17029998	0.87889987	0.09619990
80.	21.71409798	22.72900009	1.12930000	0.02099991	0.84200001	0.09640000
85.	22.30079842	22.04479980	1.23544168	0.13489997	0.79170001	0.09410001
90.	22.47899818	20.66950226	1.25230646	0.20598501	0.61147052	0.09394570
95.	22.38260078	18.68449974	1.21356964	0.23829991	0.22319990	0.09769990
100.	21.83080292	16.39949989	1.09520018	0.22690004	-0.17719990	0. 0720000
105.	21.02429962	13.88910007	0.91639990	0.28019994	-0.66680002	0.10790001
110.	19.95969772	11.18599892	0.87090009	0.41530001	-1.08629990	0.11209990
115.	18.70050049	7.93909979	0.84339988	0.39690000	-1.58159995	0.11591731
120.	17.17819977	5.12349987	1.02239990	0.20679998	-2.03030014	0.11659990
125.	15.98019981	3.52830005	1.09130001	0.28369993	-2.33430004	0.11249991
130.	14.54850006	2.34410000	0.95979995	0.34669977	-2.61390042	0.10570000
135.	13.02670002	1.37389994	0.75695026	0.32020003	-2.89930010	0.09550001
140.	11.04969978	0.56480002	0.44091910	0.45389980	-3.13999987	0.07819990
145.	8.87569904	-0.15080000	0.38299114	0.08620000	-3.37020016	0.06109990
150.	6.66470003	-0.77897620	0.31159982	0.46750000	-3.50688553	0.04560000
155.	4.58260059	-1.28289974	0.18219998	0.21069990	-3.56680012	0.02430000
160.	3.06760001	-1.13660002	-0.11540008	-0.32030010	-3.57240033	0.00540000
165.	2.04430008	-0.33980000	-0.01719993	-0.03120000	-3.52939987	0.00000000
170.	1.25049964	-0.10290000	0.11669990	-0.00290000	-3.48790002	-0.00314790
175.	0.56099981	-0.14800000	0.04690000	-0.17750001	-3.41187143	-0.00105480
180.	0.12570090	-0.08000000	0.02660000	0.00040000	-3.31816149	0.00000410

ORIGINAL PAGE IS
OF POOR QUALITY

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.20
PHI= 225.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	-0.00130000	-0.12490000	-0.02500000	0.08530000	1.43750000	0.01490000
5.	0.44639990	0.78049988	-0.01230000	0.06750000	1.57669985	0.01365000
10.	1.09060001	2.29960012	0.13390000	-0.12100001	1.71339965	0.02220000
15.	2.23330021	4.10120010	0.30579981	-0.16590001	1.70939994	0.02725000
20.	3.63460040	6.10599995	0.17179990	0.07290000	1.62899983	0.02550000
25.	5.36110067	8.29879951	-0.05740000	0.68029994	1.53049994	0.01075000
30.	7.15799999	10.47289944	-0.21089999	0.68870002	1.42649984	0.00350000
35.	8.92119980	12.54059982	-0.25430000	0.24769999	1.33509994	0.00015000
40.	10.72620010	14.46330070	-0.26679990	-0.04770000	1.26389992	-0.00370000
45.	12.46439934	16.20619965	-0.28200001	-0.23989990	1.19879985	-0.00245000
50.	14.15620041	17.82080078	-0.29720002	-0.38219991	1.13689995	-0.00130000
55.	15.63899994	18.87799835	-0.33759990	-0.12950000	1.08610010	-0.00345000
60.	17.15999985	19.78020096	-0.34579989	0.00860000	1.02263451	-0.00610000
65.	18.18220139	20.25479889	-0.27849990	0.13339999	0.97599977	-0.00855000
70.	19.31460190	20.54270172	-0.21069992	0.22690000	0.95929992	-0.01110000
75.	20.05720139	20.38240051	-0.13560000	0.31949991	1.01419985	-0.01405000
80.	20.65000153	19.97420120	-0.05980001	0.41189981	1.00489986	-0.01790000
85.	21.03479904	19.03300095	0.01600011	0.50809979	0.87379992	-0.02185000
90.	21.26229858	17.53616714	0.08590001	0.60169989	0.66100001	-0.02580000
95.	21.20589828	15.37269917	0.07190001	0.66889995	0.32440001	-0.01985000
100.	21.01950073	14.23519993	0.05780000	0.67679995	-0.12130000	-0.01300000
105.	20.41839991	11.91489983	0.01620000	0.71370000	-0.65419990	-0.00550000
110.	19.57399940	9.36560059	0.07530010	0.68619978	-1.16129982	0.00140000
115.	18.47069740	6.62070084	-0.07530000	0.63540000	-1.64089990	0.00720000
120.	17.31949997	4.59040022	0.00340010	0.54150003	-2.03130007	0.01760000
125.	16.15960121	3.13379979	0.02040009	0.56340003	-2.38240004	0.01470000
130.	14.82579899	2.05143984	0.07380011	0.44909990	-2.65119982	0.01110000
135.	12.86390114	1.14410007	0.05400000	0.52810001	-2.91450024	0.00310000
140.	10.48029900	0.31129992	0.00430001	0.57239991	-3.15679979	-0.00760000
145.	8.23780060	-0.25150001	0.00740000	0.29809991	-3.39010000	-0.01380000
150.	6.06779957	-0.65700012	-0.19752590	-0.03810000	-3.54449987	-0.01596120
155.	4.36899948	-1.06979990	-0.21820000	-0.28480002	-3.61880040	-0.01598770
160.	2.88100004	-1.43280005	-0.12750000	-0.45640001	-3.61639977	-0.01449790
165.	1.74699998	-1.42729986	-0.00970000	-0.41839999	-3.52680039	-0.01187770
170.	0.94639993	-1.02629995	0.01080000	-0.04180000	-3.44950032	-0.00910000
175.	0.43869990	-0.46840000	0.03420000	-0.18180001	-3.41400003	-0.00580000
180.	0.06200000	-0.03900000	0.02200000	-0.01900000	-3.31699944	0.00000000

ORIGINAL PAGE IS
OF POOR QUALITY

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.20
PHI= 270.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	-0.00130000	-0.07889990	0.00140000	0.02090000	1.44190001	0.0153000
5.	0.52450001	0.70859993	-0.03010000	0.00470000	1.55320001	0.0187000
10.	1.16109991	2.24030018	-0.06070000	0.05750000	1.73550010	0.0217000
15.	2.17980003	3.94089961	-0.09370000	-0.04520000	1.72140002	0.0172000
20.	3.61920023	5.81789970	-0.11929990	-0.08030000	1.67770004	0.0158000
25.	5.26610041	7.85869980	-0.14059991	-0.12020000	1.58789992	0.0134000
30.	7.01760006	10.10079956	-0.16170000	-0.16249999	1.50270021	0.0107000
35.	8.78249931	12.32869911	-0.19860001	-0.21400000	1.40639985	0.0077000
40.	10.70719910	14.46309948	-0.24479991	-0.33379990	1.31539965	0.0047000
45.	12.52280045	16.33079910	-0.28639990	-0.43470001	1.18600011	0.0020000
50.	14.16550159	17.64569855	-0.31999981	-0.48519993	1.08379996	-0.0008000
55.	15.56990147	18.75329971	-0.34879988	-0.53390002	1.01859975	-0.0032000
60.	16.84619904	19.69729996	-0.36559990	-0.57649994	0.97570002	-0.0059000
65.	18.30089951	20.54750252	-0.28709981	-0.54809994	0.95969993	-0.0128000
70.	19.38330078	21.05270004	-0.20579991	-0.51699990	0.95929992	-0.0197000
75.	20.22900009	20.87910080	-0.12490000	-0.48609993	0.98899990	-0.0271000
80.	20.87540054	19.76539803	-0.04409990	-0.46700001	0.98259991	-0.0345000
85.	21.50940132	18.24289894	0.03500001	-0.41450000	0.87639982	-0.0445000
90.	21.51421356	16.66869926	0.09800000	-0.35559991	0.67909992	-0.0557000
95.	21.37320137	14.91700077	0.04110001	-0.33780000	0.34969991	-0.0504000
100.	21.03229904	12.81059837	-0.01619999	-0.30809990	-0.02960000	-0.0408000
105.	20.45249748	10.86100006	-0.09759991	-0.22909980	-0.51609987	-0.0304000
110.	19.52909851	8.60180092	-0.08409999	-0.20849989	-1.04709995	-0.0198000
115.	18.55249977	6.13500023	-0.27869999	-0.19609989	-1.58089995	-0.0088000
120.	17.44700050	4.33900499	-0.23649999	-0.27639991	-2.01280022	0.0027000
125.	16.26910210	3.11530018	-0.25040001	-0.20669991	-2.36320019	0.0113000
130.	14.94569969	2.20599985	-0.22349989	-0.23519990	-2.63889980	0.0298000
135.	12.96010017	1.03680015	-0.20659980	-0.23620000	-2.89930010	0.0320000
140.	10.75509930	0.11180001	-0.20689979	-0.2504001	-3.14580035	0.0291000
145.	8.46829937	-0.56889999	-0.21619990	-0.23890001	-3.36199999	0.0188000
150.	6.60229969	-1.11330009	-0.43050000	-0.33199990	-3.54530001	0.0025000
155.	4.81849957	-1.34019983	-0.43179980	-0.55639994	-3.61590004	-0.0211247
160.	3.04750013	-1.58530009	-0.31299999	-0.69490004	-3.60230041	-0.0307826
165.	1.97889996	-1.37570009	-0.15349990	-0.58170003	-3.54339981	-0.0395428
170.	1.12940001	-0.92839992	-0.03530000	-0.14640000	-3.46010041	-0.0298286
175.	0.42019990	-0.45249990	-0.03680000	-0.16290000	-3.35160494	-0.0117500
180.	0.07120000	-0.03890000	0.02200000	-0.01940000	-3.31400871	0.0000000

ORIGINAL PAGE IS
OF POOR QUALITY

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.20
PHI= 315.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.02100000	-0.05210000	0.01710000	-0.05670000	1.43670011	0.01510000
5.	0.48439991	0.74469990	-0.05660000	0.03970000	1.55999994	0.01490000
10.	1.17100000	2.31809998	-0.29009992	0.22820000	1.73230004	0.00960000
15.	2.22520018	4.18260002	-0.56100005	0.34870002	1.71060002	-0.00710000
20.	3.54969978	5.93900013	-0.52809995	0.07370000	1.67330003	-0.01410000
25.	5.10130072	8.14270020	-0.40720001	-0.46289983	1.59770012	-0.01660000
30.	6.90060043	10.39149952	-0.35649991	-0.63569981	1.50300002	-0.01690000
35.	8.86650085	12.50270176	-0.33959979	-0.77699989	1.39249992	-0.02290000
40.	10.83060169	14.47419930	-0.32519990	-0.89539981	1.27559996	-0.02840000
45.	12.68339920	16.28229904	-0.31419981	-1.00150001	1.17779994	-0.03300000
50.	14.33330059	17.86270142	-0.31209981	-1.06189990	1.11209965	-0.03760000
55.	15.78420067	19.10789871	-0.30989999	-1.10010004	1.05159974	-0.04230000
60.	17.03340149	20.10349846	-0.29519990	-1.06289971	1.01619995	-0.04880000
65.	18.36249924	20.84759903	-0.17719990	-0.84909993	1.01839995	-0.05780000
70.	19.40660095	21.18930054	-0.05940000	-0.78499991	1.02670002	-0.06710000
75.	20.23600006	21.01969910	0.05840000	-0.72460002	1.02979994	-0.07670000
80.	20.86309814	20.39059830	0.17630000	-0.66503992	1.00189996	-0.08620000
85.	21.41049957	19.41760254	0.29640001	-0.59240001	0.87059993	-0.09570000
90.	21.74560165	17.80640030	0.39489993	-0.53759992	0.67229992	-0.10570000
95.	21.35499954	15.83550167	0.34650001	-0.56690001	0.32330000	-0.11710000
100.	20.95270157	13.80630016	0.28749990	-0.59809995	-0.12029990	-0.12779990
105.	20.49069977	11.67410088	0.19679999	-0.60970002	-0.64880002	-0.13839990
110.	19.58580017	8.98840046	0.19620000	-0.71199983	-1.17289984	-0.14829990
115.	18.53580093	6.42309999	-0.01449990	-0.80929977	-1.62150002	-0.15790001
120.	17.31459999	4.30270004	0.00580001	-1.00079989	-1.99670005	-0.16400000
125.	16.17530060	2.78839993	-0.05861311	-1.00590003	-2.32340002	-0.15905870
130.	14.91419983	1.77940011	-0.04588570	-1.05789995	-2.59159994	-0.13020000
135.	12.97460079	0.95649999	-0.04640001	-0.99000001	-2.83039999	-0.09500620
140.	10.85899830	0.07720000	-0.06839989	-0.84619993	-3.06190014	-0.06378730
145.	8.68690014	-0.72729981	-0.10811740	-0.65319991	-3.31240010	-0.02710000
150.	6.70510006	-1.32409990	-0.36139960	-0.56859982	-3.47609997	-0.00160000
155.	4.98810005	-1.51800013	-0.45789990	-0.66739994	-3.57959986	-0.00340850
160.	3.32199979	-1.48460007	-0.40519980	-0.63690001	-3.57499981	-0.00421700
165.	2.03079987	-1.18269992	-0.28039980	-0.43610001	-3.47740006	-0.00390710
170.	1.18899965	-0.76209992	-0.22350000	-0.00740000	-3.38920021	-0.00258690
175.	0.61519992	-0.30109990	-0.12369990	-0.08070000	-3.32776546	-0.00129340
180.	0.10179990	0.09070000	0.02650000	0.00200000	-3.31466675	0.00000000

ORIGINAL PAGE IS
OF POOR QUALITY

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.20
PHI= 360.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.02780000	0.06220000	-0.00110000	0.00260000	1.45809984	0.01560000
5.	0.53829992	0.94610000	-0.01950000	-0.00160000	1.58969975	0.01870000
10.	1.23919988	2.59910011	-0.07270000	0.06990000	1.72729981	-0.00430000
15.	2.33940005	4.54209948	-0.29409981	0.36559990	1.75490010	-0.02570000
20.	3.84039998	6.42400026	-0.45659992	0.59469992	1.72009993	-0.04900000
25.	5.57490063	8.53000069	-0.62049991	0.65829992	1.64220011	-0.07210001
30.	7.33719969	10.82960033	-0.73129994	0.66519994	1.55289996	-0.09120000
35.	9.24250031	13.31660080	-0.84410006	0.65880001	1.47779965	-0.10699990
40.	11.39730072	15.66349983	-0.95720011	0.63060004	1.39500010	-0.12320001
45.	13.13490105	17.90359879	-1.05509996	0.54609990	1.26320004	-0.13549989
50.	14.73690033	19.94300079	-1.14539993	0.40450001	1.09999990	-0.14720000
55.	16.10210037	21.67230034	-1.23579991	0.12608978	0.99589992	-0.15830000
60.	17.69541740	23.33123970	-1.28986716	-0.11288929	0.85482651	-0.16499621
65.	18.56897545	24.74882317	-1.32463193	-0.47018591	0.76561832	-0.16609439
70.	19.50316238	24.32225037	-1.33362710	-0.77726674	0.87775671	-0.17700460
75.	20.53181648	22.78179932	-1.25855148	-0.90830624	1.14267135	-0.20438771
80.	21.66716385	21.53330994	-0.99840015	-0.90024441	1.08517432	-0.22502249
85.	22.30628967	20.58297348	-0.74086612	-0.77155161	0.84644473	-0.23402941
90.	22.56439590	19.37760544	-0.67539608	-0.70976472	0.56827521	-0.23760000
95.	22.49463844	17.71856117	-0.67092580	-0.71477550	0.17867330	-0.23628160
100.	21.89715004	15.65983009	-0.81819981	-1.00380278	-0.24317300	-0.22080840
105.	20.92706871	13.29448128	-0.90525585	-1.17098105	-0.66280502	-0.17949720
110.	19.84081078	10.21091461	-0.92275721	-1.23068094	-1.11681414	-0.15465100
115.	18.60599899	7.51442051	-0.95872414	-1.07959104	-1.56092775	-0.14524800
120.	17.20965576	5.04003525	-1.22662175	-0.90952432	-1.93740535	-0.13887569
125.	15.93333435	3.40667224	-1.34043586	-0.93870884	-2.24654722	-0.13297319
130.	14.58704948	2.33958316	-1.15416026	-0.90469432	-2.56372762	-0.12607430
135.	13.01653767	1.56234264	-0.97989762	-0.58799994	-2.84075761	-0.11120000
140.	11.10437679	0.91767204	-0.65810269	-0.58279991	-3.08467865	-0.08788710
145.	8.95429134	0.08719789	-0.62374467	-0.13519979	-3.30956602	-0.06307120
150.	6.58683443	-0.60438662	-0.52718174	-0.26433992	-3.48379445	-0.03914950
155.	4.44700050	-1.33952774	-0.29460001	0.36145452	-3.56470013	-0.02010000
160.	2.84932113	-0.91540591	0.22399999	1.41471708	-3.57849979	-0.01019600
165.	1.82221973	-0.32781389	0.97212130	1.75782847	-3.60454512	-0.01190280
170.	1.12558424	-0.15368190	0.59024930	0.96752661	-3.53000975	-0.01200930
175.	0.35827750	-0.17958471	-0.05688760	0.12594381	-3.41838121	-0.00239430
180.	0.03652000	0.01439990	-0.03798000	-0.14692000	-3.31917834	-0.00002290

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.40
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	-0.04410000	0.06220000	-0.00110000	-0.07160000	1.27080011	0.01590000
5.	0.50119978	0.95589978	0.00340000	-0.08230000	1.33240020	0.01100000
10.	1.23699987	2.62680030	-0.03020000	-0.03520000	1.41100001	0.00240000
15.	2.37199998	4.58759975	-0.23199990	0.28309992	1.44039965	-0.02040000
20.	3.90790009	6.48740005	-0.37480000	0.48469990	1.47119975	-0.03820000
25.	5.67729950	8.71730042	-0.51909995	0.52079993	1.49049985	-0.06350000
30.	7.47440052	10.99480057	-0.59199995	0.39960003	1.49959993	-0.08090000
35.	9.65260124	13.17250156	-0.65429980	0.19780000	1.49829996	-0.09200000
40.	11.81889915	14.87809849	-0.71249998	-0.02700000	1.48679996	-0.10749990
45.	13.86269951	16.31570244	-0.77249998	-0.26870000	1.46900010	-0.12160000
50.	15.53470039	17.52180099	-0.82769990	-0.35939991	1.44509995	-0.14289990
55.	16.69260025	18.53889847	-0.86820000	-0.42029992	1.41569996	-0.15949990
60.	17.97413063	19.20153427	-0.83409232	-0.42090002	1.37642300	-0.18345770
65.	19.07000160	19.49000168	-0.70889992	-0.34340000	1.33949995	-0.21190000
70.	20.17486191	19.88439560	-0.67946023	-0.22487882	1.30465722	-0.21696121
75.	20.83967781	20.08165741	-0.56476372	-0.30705562	1.25581825	-0.20114481
80.	21.19297791	20.12054062	-0.52324092	-0.41944402	1.10689425	-0.19036040
85.	21.32000160	19.68309784	-0.48374042	-0.38539982	0.88399982	-0.18809171
90.	21.36000252	18.84257698	-0.44870511	-0.40603101	0.57879770	-0.18721430
95.	21.10177994	17.57977867	-0.43039772	-0.39950380	0.22174580	-0.18564181
100.	20.74709702	16.49293709	-0.42874792	-0.47194222	-0.17323650	-0.18606199
105.	20.06431770	15.15474129	-0.46398112	-0.62071723	-0.62328571	-0.18607520
110.	19.21799660	13.50319958	-0.48991451	-0.70798367	-1.11944032	-0.18234180
115.	18.22030830	11.94863892	-0.49859592	-0.27993363	-1.56897736	-0.17864430
120.	17.05624008	9.60444260	-0.55565798	-0.15274632	-1.95418775	-0.16944079
125.	15.88990974	7.61695766	-0.81863999	-0.76200473	-2.29799223	-0.15525350
130.	14.34045982	5.96681499	-0.92495167	-1.24783850	-2.60160041	-0.14346290
135.	12.49298954	4.58052826	-0.98999983	-1.19135404	-2.90490007	-0.12790769
140.	10.42232418	3.61177921	-1.02336025	-0.83687794	-3.23313236	-0.10338400
145.	8.43349457	2.27823210	-0.96680027	-0.69248563	-3.43910050	-0.07763440
150.	6.54391956	0.93739998	-0.86712670	-0.62827444	-3.61158562	-0.05465110
155.	4.44659948	-0.21123230	-0.52519327	-0.66095084	-3.68411875	-0.03609520
160.	2.94454288	-0.84509993	-0.07330039	-0.35778099	-3.67262745	-0.01461920
165.	1.86667907	-0.76349056	0.26920000	0.46055204	-3.67925191	-0.00638370
170.	1.06569862	-0.31788221	0.60555172	1.06900692	-3.64726305	-0.00414510
175.	0.34442541	-0.28721061	0.00480000	0.00807140	-3.55031204	-0.00062070
180.	0.02366000	-0.02118000	-0.02932000	-0.05454000	-3.49762821	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.40
PHI= 45.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.06560000	0.05990000	-0.00240000	-0.05130000	1.27119994	0.02000000
5.	0.57720000	0.82209992	0.00510000	-0.07830000	1.31649983	0.01470000
10.	1.21980000	2.25070000	0.09639990	-0.20570000	1.39779985	0.01260000
15.	2.26289988	4.07439995	0.16840000	-0.17999999	1.43670011	0.01090000
20.	3.67570019	5.73460007	0.13510001	-0.09710000	1.47279990	0.00350000
25.	5.41779995	7.94009972	0.08300000	-0.06440000	1.50899994	-0.00980000
30.	7.21780014	10.20829964	0.05929991	-0.05110000	1.53989995	-0.03670000
35.	8.99469948	12.02260017	0.06340000	-0.31839991	1.55429995	-0.07230000
40.	11.02379990	13.50629902	0.05980000	-0.05940010	1.54879975	-0.09829990
45.	13.05330086	14.81450081	0.09549990	0.21650001	1.53139985	-0.12570000
50.	14.61159992	15.82549953	0.26400003	0.36689994	1.49200010	-0.15650001
55.	15.89149952	16.49950027	0.45499992	0.55949992	1.45420003	-0.17959990
60.	17.22192001	17.41942215	0.66739994	0.64920002	1.38736701	-0.19742310
65.	18.31797791	18.39057541	0.93839973	0.70929998	1.31573272	-0.20737681
70.	19.31990051	18.63999939	0.97990000	0.74640000	1.28569984	-0.2[illegible]0000
75.	20.00000000	18.65531158	0.98639995	0.76973397	1.28169990	-0.22639991
80.	20.36989975	18.59989929	0.99189997	0.78469968	1.15030003	-0.23109990
85.	20.57989883	18.13061142	0.99684083	0.81227958	0.93059993	-0.23559980
90.	20.55471611	17.04119682	0.99402362	0.84855491	0.64930522	-0.23489021
95.	20.39405632	15.73790359	0.99120617	0.89805937	0.27091420	-0.2334945[illegible]
100.	19.97609901	14.40650082	0.95243996	0.87856787	-0.14829950	-0.23173709
105.	19.38430595	13.05310154	0.98043984	0.95074803	-0.64262331	-0.22918801
110.	18.53879738	11.65870476	0.94508004	1.05382740	-1.16556334	-0.22384000
115.	17.51879311	10.04200172	0.85891986	1.41065013	-1.63995576	-0.21053199
120.	16.24239159	7.98611164	0.75762010	1.65519595	-2.01193190	-0.19635600
125.	15.00119972	6.21476078	0.55351990	1.54993200	-2.34346819	-0.17620790
130.	13.48216152	4.65605211	0.38038900	1.24854481	-2.64473200	-0.15809999
135.	11.68820000	3.54827499	0.08777201	1.10569310	-2.92511773	-0.13208160
140.	9.74799919	2.40500021	-0.17307562	0.94079334	-3.17170000	-0.10739990
145.	7.83745956	1.51700151	-0.16330010	0.97130030	-3.36694813	-0.07892800
150.	5.89070129	0.64504522	-0.17404090	0.69560063	-3.52553988	-0.05836230
155.	4.21628666	-0.30891451	-0.31753722	0.45230833	-3.65436935	-0.04219230
160.	2.93382716	-1.00892031	-0.38918772	0.21880001	-3.69362426	-0.02535170
165.	1.71489453	-0.99860072	-0.34902012	-0.10026830	-3.68705750	-0.01690420
170.	0.85518771	-0.75766772	-0.31926170	-0.01366970	-3.62771010	-0.00561920
175.	0.32203850	-0.43357891	-0.07400730	0.21244441	-3.54461193	-0.00127920
180.	0.03629990	0.00940000	-0.01450000	-0.04522000	-3.48987770	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.40
PHI= 90.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.04920000	0.13330001	-0.03440000	-0.01150000	1.26859975	0.01530000
5.	0.58579987	0.90859991	-0.03580000	-0.00990000	1.34920001	0.00785000
10.	1.19390011	2.22170019	-0.02900000	-0.12260000	1.44260001	0.00190000
15.	2.34210014	4.20730019	-0.02470000	-0.27700001	1.46659982	-0.00315000
20.	3.89410019	5.88959980	-0.00260000	-0.35479990	1.47919965	-0.00630000
25.	5.56080008	7.74020004	-0.02120000	-0.21660000	1.48900020	-0.01075000
30.	7.50510025	9.59230042	-0.05310000	-0.17109990	1.49449992	-0.01830000
35.	9.31290054	11.35630035	-0.07920000	-0.07990000	1.48920012	-0.02875000
40.	11.49389935	12.93309975	-0.09940000	-0.01480000	1.47190011	-0.03620000
45.	13.66850185	14.28990078	-0.11850000	0.03160000	1.44190001	-0.04165000
50.	15.25279999	15.44869995	-0.13169999	0.05330000	1.40829992	-0.04400000
55.	16.51259995	16.35229874	-0.14500001	0.06030000	1.37259996	-0.04565000
60.	17.64162827	17.17518997	-0.15809999	0.06860000	1.32484496	-0.04420000
65.	18.72826385	17.93480682	-0.15996270	0.08530000	1.30710006	-0.03555000
70.	19.73969650	18.50849915	-0.16000001	0.14471160	1.26380002	-0.03292030
75.	20.32989883	18.68119431	-0.15890001	0.21740000	1.19439995	-0.03125000
80.	20.76990128	18.72999954	-0.15783320	0.18959410	1.09309995	-0.02721700
85.	20.90970993	18.47999954	-0.15725690	0.16163780	0.91299993	-0.02795000
90.	20.90345192	17.38049507	-0.17857361	0.12699290	0.63286752	-0.02717160
95.	20.65589714	15.97999954	-0.19869791	0.16226590	0.29341421	-0.02245140
100.	20.27849770	14.80540085	-0.20194201	0.21100600	-0.09991150	-0.02181800
105.	19.65259743	13.45870495	-0.25190002	0.20999171	-0.58702332	-0.02238800
110.	18.80710220	11.89841080	-0.25274342	0.20855722	-1.13924694	-0.02305020
115.	17.72270966	10.18643951	-0.30360410	0.25500381	-1.55732763	-0.02637200
120.	16.69270515	8.32931232	-0.25542000	0.36887589	-1.95805192	-0.02840000
125.	15.24362946	6.48392820	-0.31753659	0.27347741	-2.30539894	-0.03441540
130.	13.83039761	4.78226089	-0.34064540	0.24748972	-2.62839985	-0.03327120
135.	11.90820503	3.22822309	-0.29399261	0.24715480	-2.90785885	-0.03101520
140.	9.88315773	2.10419011	-0.18355390	0.27837542	-3.16160035	-0.02086280
145.	7.94911909	1.07130146	0.00327980	0.20026670	-3.35911608	-0.01407600
150.	5.96875763	0.08007911	0.15207410	-0.01347199	-3.53906131	-0.00577730
155.	4.25395489	-0.61343795	0.05316980	0.21300009	-3.66873598	0.00141740
160.	2.72162294	-1.18318355	-0.25889951	-0.70803744	-3.72577190	0.00126600
165.	1.71098065	-1.20449185	-0.79303432	-0.99982035	-3.71233225	-0.00201410
170.	0.83818781	-0.87039292	-0.29704490	0.07455210	-3.64512157	0.00000000
175.	0.32899591	-0.46923780	-0.11451680	-0.00216650	-3.55296373	0.00061800
180.	0.02338000	0.01193590	0.01150000	-0.01550000	-3.48800015	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.40
PHI= 135.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.04750000	0.10690000	-0.04540000	0.00380000	1.27320004	0.01620000
5.	0.55549991	0.90750003	-0.03710000	0.00840000	1.40669990	0.01285000
10.	1.11089993	2.29990005	-0.10260001	-0.00230000	1.48639965	0.00770000
15.	2.31890011	4.30879974	-0.18399991	-0.17329991	1.51760006	0.00835000
20.	3.76859999	6.03759956	-0.20710000	-0.32050002	1.53020000	0.01150000
25.	5.44760036	7.83549976	-0.23349981	-0.33930001	1.54079986	0.02065000
30.	7.22469997	9.57749939	-0.35399991	-0.45250002	1.55149984	0.04099990
35.	9.20859909	11.43720055	-0.48320001	-0.54319990	1.53999984	0.05835000
40.	11.41249943	13.07349968	-0.62199992	-0.66229993	1.53040004	0.07690000
45.	13.40150070	14.59199905	-0.72159994	-0.80609995	1.51409996	0.09765000
50.	14.97790051	15.68219948	-0.79249990	-0.93799990	1.49200010	0.12420000
55.	16.25830078	16.69720078	-0.84350002	-1.06949985	1.46250010	0.14774990
60.	17.23080063	17.34920120	-0.86100012	-1.13539982	1.41820002	0.17479990
65.	17.97160149	17.86559677	-0.86709982	-1.13659978	1.37479985	0.18584991
70.	18.87799835	18.00960159	-0.87319994	-1.15339994	1.30729985	0.19690000
75.	19.65179825	18.06150055	-0.85890013	-1.19140017	1.20369995	0.20554991
80.	20.18939972	18.23820114	-0.84059978	-1.23040009	1.02409995	0.20699990
85.	20.65519905	18.20420074	-0.82249963	-1.22719991	0.83369982	0.20489989
90.	20.95820236	18.01999855	-0.80359966	-1.22409999	0.63135833	0.20279990
95.	20.71370125	16.68219948	-0.77970004	-1.21319997	0.33950001	0.20095000
100.	20.17019844	14.89339924	-0.75829989	-1.17370009	-0.06710000	0.19750001
105.	19.53020287	13.05080032	-0.80439991	-1.29839981	-0.53509992	0.19130000
110.	18.69249916	11.12329865	-0.79149985	-1.26419997	-1.05929995	0.18440001
115.	17.63919830	9.35470104	-0.72649992	-1.30559993	-1.58839965	0.16230001
120.	16.40159988	7.83769941	-0.61650002	-1.36710000	-2.03959990	0.13829991
125.	15.12159920	6.33589983	-0.40969992	-1.26129997	-2.42689991	0.12340000
130.	13.62510014	4.84059954	-0.07339990	-1.14370000	-2.78160000	0.09769990
135.	11.91300011	3.48010015	0.25910011	-0.92930013	-3.06310010	0.07905700
140.	10.14080048	2.20590043	0.44260004	-0.81810004	-3.27730012	0.06030860
145.	7.97640038	1.12399983	0.43160000	-0.93359983	-3.44750023	0.05034990
150.	5.69490004	0.13370000	0.43051660	-0.91099983	-3.49033904	0.04760470
155.	4.21129990	-0.56509990	0.51200002	-0.78959990	-3.51215267	0.04201400
160.	2.76830029	-0.90509993	0.36110002	-0.72299993	-3.52792597	0.02788670
165.	1.46700001	-1.10000002	0.12090001	-0.62089993	-3.53546238	0.01839990
170.	0.89179993	-0.78509992	0.10880000	-0.55170000	-3.53931451	0.01318590
175.	0.36589980	-0.48649991	0.08950000	-0.42099991	-3.52367401	0.00350250
180.	0.09370000	-0.09909990	0.01720000	-0.13010000	-3.49287581	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.40
PHI= 180.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.10519990	0.01440000	-0.04280000	0.04710000	1.27040005	0.01610000
5.	0.53999978	1.10959995	-0.05450000	0.03740000	1.39119995	0.01070000
10.	1.29929996	2.90070009	-0.02040000	-0.07050000	1.46120000	0.00920000
15.	2.38620019	4.86709976	0.21810000	-0.56169981	1.48959994	0.00813460
20.	4.03429985	6.86030054	0.32009989	-0.78749985	1.50939965	0.00800000
25.	5.75690031	8.81579971	0.42809999	-0.76329994	1.52119994	0.01360000
30.	7.57090044	10.78529835	0.45150000	-0.71619993	1.52769983	0.01980000
35.	9.66080093	12.63830090	0.47370002	-0.57560003	1.52049994	0.02700000
40.	11.85120010	14.26619911	0.49259993	-0.48500001	1.51760006	0.03180000
45.	13.81469917	15.90629959	0.50859976	-0.45229989	1.49629974	0.04080000
50.	15.45240116	17.42160034	0.54409999	-0.47640002	1.46149993	0.04890000
55.	16.81679916	18.39979935	0.60149992	-0.47339991	1.42400002	0.07000000
60.	17.96610260	19.10630035	0.66969991	-0.44619980	1.37319994	0.07960000
65.	18.93580055	19.49660110	0.73209983	-0.32290000	1.31069994	0.08750001
70.	19.79470062	19.75749969	0.77529991	-0.09050000	1.22889996	0.09490000
75.	20.47770119	19.81800079	0.81830001	0.04970001	1.12290001	0.09819990
80.	20.96960068	19.71469879	0.86879992	0.09869990	0.98659992	0.09920000
85.	21.31599998	19.31480217	0.89918685	0.18650000	0.80330002	0.10220000
90.	21.22753525	18.61926842	0.90259993	0.24549989	0.58019990	0.10380000
95.	20.94839859	17.61350060	0.88176525	0.28599998	0.30589980	0.10220000
100.	20.49889755	16.33010101	0.83919990	0.32409990	-0.07480000	0.10060000
105.	19.85599709	14.69060135	0.79335439	0.30399984	-0.51810002	0.09849990
110.	19.05730057	13.14889908	0.74629998	0.26800001	-0.99790001	0.09680001
115.	17.98129845	11.53019905	0.69180000	-0.12150007	-1.50080001	0.09750000
120.	16.90480042	9.79318047	0.63969988	-0.36340016	-1.98880005	0.09870000
125.	15.64509869	8.22110081	0.58469999	-0.10889995	-2.42210007	0.09750000
130.	14.14149952	6.71929979	0.50266689	0.26370001	-2.78770041	0.09430000
135.	12.53570080	5.48650026	0.46866661	0.20599991	-3.06580019	0.08798140
140.	10.77080059	4.43989992	0.43759930	0.14980000	-3.29190016	0.07900000
145.	8.48909950	3.10670018	0.38761690	0.14729990	-3.44299984	0.06019990
150.	6.32284832	1.61415064	0.36890000	0.13819990	-3.59619999	0.04558330
155.	4.31360054	0.10299993	0.11280000	0.24200000	-3.65030003	0.03122740
160.	2.78200006	-0.98889995	0.04859990	0.33890000	-3.66660023	0.01609310
165.	1.61089993	-0.96679986	0.12389991	0.14300011	-3.65999961	0.00839710
170.	0.93190002	-0.31920001	0.06649990	-0.01420000	-3.63540006	0.00715720
175.	0.37519991	-0.49000001	0.01590000	-0.10009991	-3.60400677	0.00391880
180.	0.11790000	0.05380000	0.01300000	-0.11390000	-3.56029977	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.40
PHI= 225.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00540000	-0.12490000	-0.01840000	0.08530000	1.28139985	0.01500000
5.	0.47639990	0.87349981	0.00850000	0.10120000	1.37199974	0.01365000
10.	1.19029975	2.52040005	0.18359990	-0.06990000	1.49340010	0.02220000
15.	2.33209991	4.36240005	0.37849998	-0.09140000	1.52209985	0.02725000
20.	3.75519991	6.26469994	0.26750001	0.11300000	1.54399991	0.02820000
25.	5.52869987	8.11470032	0.08199990	0.15979990	1.56200004	0.02575000
30.	7.35919952	10.13769913	0.02250000	0.19170000	1.56849992	0.00760000
35.	9.21640015	12.15299988	-0.00400000	0.21030000	1.55639994	0.00145000
40.	11.29549980	13.82690048	-0.01530000	0.22350000	1.53530002	0.00140000
45.	13.50650024	15.21410084	-0.02460000	0.23260000	1.50529993	0.00165000
50.	15.13560009	16.30830002	-0.03329990	0.24680001	1.47340012	0.00110000
55.	16.42869949	17.10969925	-0.03390000	0.29519990	1.44339991	0.00065000
60.	17.52099991	17.76060104	-0.03040000	0.34209991	1.41059995	0.00050000
65.	18.46680069	18.28530121	0.00310000	0.40630001	1.35829985	0.00045000
70.	19.28739929	18.53049850	0.04370000	0.45709991	1.29569995	-0.00020000
75.	19.95550156	18.53490257	0.08430000	0.49800000	1.21770000	-0.00115000
80.	20.47480011	18.25730133	0.12410000	0.53579992	1.08229983	-0.00220000
85.	20.81610107	17.70539856	0.16310000	0.56939977	0.90069991	-0.00305000
90.	20.92650032	16.81189919	0.19870001	0.58420002	0.68250000	-0.00450000
95.	20.57299995	15.63950062	0.20512170	0.55019993	0.38810000	-0.00605000
100.	20.09679985	14.30069923	0.19760001	0.50839990	-0.01080000	-0.00760000
105.	19.40690041	12.74069977	0.22483641	0.50669998	-0.50440001	-0.00990000
110.	18.67430115	11.29119873	0.20774561	0.50340003	-1.03839993	-0.01260000
115.	17.61820030	9.95510006	0.22563760	0.44679999	-1.56579995	-0.01720000
120.	16.58899879	8.60169888	0.15220001	0.35119992	-2.02629995	-0.02050000
125.	15.15380096	6.96919966	0.17910001	0.36070010	-2.46040010	-0.01850000
130.	13.49840069	5.44790030	0.13120000	0.34334531	-2.82110000	-0.01940000
135.	11.87630081	4.00680004	0.02895650	0.17674270	-3.10970020	-0.01790000
140.	10.16719913	2.75620031	-0.06800000	0.06813319	-3.34939981	-0.01464460
145.	8.25219917	1.63870013	-0.21808690	0.04546650	-3.52780008	-0.01120050
150.	6.37519979	0.75209975	-0.28809991	0.00880000	-3.66149998	-0.00908140
155.	4.57169962	0.03230000	-0.21961080	-0.38189998	-3.72750020	-0.01556600
160.	2.84360003	-0.66959971	0.00670001	-0.74689990	-3.72450018	-0.00887320
165.	1.49000001	-0.93080002	0.20880000	-0.54899991	-3.69590020	-0.00233170
170.	0.87500000	-0.68529987	0.33890000	-0.18689990	-3.65689993	-0.00400000
175.	0.35679990	-0.40430000	0.21250001	-0.08110000	-3.58570004	-0.00200000
180.	0.05100000	0.04450000	0.01050000	-0.01730000	-3.48000015	-0.00000970

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.40
PHI= 270.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	-0.00130000	-0.07889990	0.00140000	0.02090000	1.28530002	0.01610000
5.	0.50590003	0.76999992	-0.01790000	0.04430000	1.38469994	0.01820000
10.	1.21819985	2.36280012	-0.00250000	0.07799990	1.48210001	0.02170000
15.	2.26789999	4.12440014	0.01300000	0.02970000	1.51719975	0.02640000
20.	3.84780002	5.78639984	0.01750000	0.03000000	1.53430021	0.01900000
25.	5.63110018	7.20339966	-0.00090000	0.05670000	1.54779994	0.01600000
30.	7.44579983	9.16760063	-0.00450000	0.06470000	1.55260003	0.01150000
35.	9.37019920	11.20180021	-0.00300000	0.03020000	1.54340005	0.00760000
40.	11.59359932	13.19430065	0.00200000	-0.01340000	1.54110003	0.00770000
45.	13.55739975	14.87089825	0.00690000	-0.24180000	1.51989985	0.00790000
50.	15.23299980	16.05799866	0.01380000	-0.32279980	1.47930002	0.00580000
55.	16.46300125	16.80149651	0.02130000	-0.32510000	1.41839993	0.00350000
60.	17.53590012	17.23590088	0.02890000	-0.27939990	1.34470022	0.00100000
65.	18.49869919	17.48699951	0.07229999	-0.28060001	1.26629984	-0.00020000
70.	19.35110092	17.57180023	0.12310001	-0.31489980	1.18680000	-0.00130000
75.	20.05929947	17.53189850	0.17400001	-0.31110001	1.09060001	-0.00300000
80.	20.54850006	17.30530357	0.22539990	-0.33660001	0.97759992	-0.00480000
85.	20.88100243	16.93919754	0.27709991	-0.30549991	0.85469991	-0.00730000
90.	21.03700066	16.37650108	0.32879990	-0.26029980	0.67690003	-0.01010000
95.	20.77699852	15.38489914	0.30880001	-0.30039990	0.41020000	-0.01450000
100.	20.26860046	14.00240040	0.27919990	-0.31510001	0.04190000	-0.01960000
105.	19.62170219	12.52710056	0.29469991	-0.27159989	-0.40789980	-0.02520000
110.	18.79860115	11.03970051	0.26380000	-0.22620001	-0.95529991	-0.02850000
115.	17.64549828	9.70049953	0.28569999	-0.21510002	-1.48200011	-0.03150000
120.	16.51859856	8.37119961	0.20910001	-0.25439999	-1.99509990	-0.03140000
125.	15.16880035	6.88349962	0.20260000	-0.09710000	-2.42420006	-0.02070000
130.	13.69360065	5.30030012	0.13890001	-0.01690000	-2.77769995	-0.00600000
135.	12.01230049	3.96139979	0.02960001	-0.11900000	-3.09849977	0.00850000
140.	10.18879890	2.80919981	-0.08120000	-0.06750000	-3.32679987	0.01500000
145.	8.17819977	1.88419998	-0.25720000	0.08549990	-3.50680017	0.01960000
150.	6.24250031	0.90050006	-0.38890001	0.19209990	-3.62169981	0.02056870
155.	4.48729992	-0.29279989	-0.33660001	-0.03150019	-3.70650029	0.01738860
160.	2.78789973	-1.22489965	-0.14240000	-0.18610018	-3.72700000	0.00741780
165.	1.56729984	-1.12000000	-0.03029990	-0.04870000	-3.71850014	0.00745850
170.	0.77609992	-1.04900014	0.11750010	0.13349991	-3.66890025	0.00536920
175.	0.39019990	-0.55589992	0.04720000	0.04850000	-3.62560010	0.00229080
180.	0.00820000	0.06190000	-0.00950000	0.04760000	-3.50759983	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.40
PHI= 315.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.02100000	-0.05210000	0.01710000	-0.05670000	1.26500010	0.01570000
5.	0.50459993	0.77509981	-0.02590000	0.06830000	1.34019983	0.01490000
10.	1.19460011	2.38550019	-0.20039989	0.28450000	1.40520012	0.01240000
15.	2.30140018	4.28719997	-0.45429993	0.43279991	1.43179965	-0.00520000
20.	3.80460000	6.00580025	-0.38529989	0.17050000	1.45939994	-0.01310000
25.	5.52970076	7.92030001	-0.22819990	-0.25760001	1.48359990	-0.01530000
30.	7.38529968	9.52860069	-0.13890000	-0.48339990	1.49869990	-0.01520000
35.	9.56789970	11.38240147	-0.07070000	-0.65539992	1.49489975	-0.02050000
40.	11.78599930	13.13779926	-0.01330000	-0.75689977	1.48829985	-0.02640000
45.	13.59210014	14.51839924	0.03480000	-0.83649993	1.47410011	-0.03100000
50.	15.20649910	15.81679916	0.07660000	-0.88290000	1.45210004	-0.03630000
55.	16.41859818	16.71049881	0.10960000	-0.87969983	1.42160010	-0.04160000
60.	17.50090027	17.36679840	0.14049999	-0.86940002	1.38779986	-0.04567180
65.	18.45140076	17.74269867	0.21669990	-0.82959992	1.34019983	-0.04700000
70.	19.23699951	17.91809845	0.29290000	-0.77719992	1.28590000	-0.04710000
75.	20.01570129	17.97700119	0.36670002	-0.70359987	1.21190000	-0.04710000
80.	20.52519989	17.79359818	0.44019991	-0.63759983	1.10380006	-0.04700000
85.	20.86260033	17.43369893	0.51089978	-0.60739982	0.93760002	-0.04640000
90.	20.99009895	16.79380226	0.57420003	-0.56750000	0.65719992	-0.04722690
95.	20.76340103	15.77490139	0.53680003	-0.63150001	0.42420000	-0.04790000
100.	20.30059814	14.50729942	0.49770001	-0.69919991	0.01550000	-0.04980000
105.	19.52989769	13.15210056	0.50240004	-0.73089999	-0.46779990	-0.05200000
110.	18.69959831	11.39440060	0.45649990	-0.76109987	-0.99570000	-0.05430000
115.	17.59530067	9.97119999	0.45909992	-0.83699989	-1.50149965	-0.05650000
120.	16.61020088	8.62459850	0.36039990	-0.94979990	-1.95030010	-0.05699990
125.	15.25540161	7.06250000	0.30390000	-0.82939988	-2.35010004	-0.04780000
130.	13.68560028	5.46190023	0.19040000	-0.75819975	-2.70100021	-0.03860000
135.	11.96669960	3.98020005	0.02690001	-0.79280001	-3.01989985	-0.02950000
140.	10.22139931	2.83129978	-0.13580000	-0.75749993	-3.26170039	-0.00590000
145.	8.33940029	1.73610008	-0.34850001	-0.52169991	-3.43870020	0.01140000
150.	6.38300037	0.77760005	-0.50469989	0.13719991	-3.57664442	0.02441950
155.	4.53740025	-0.25040001	-0.46609980	0.07949981	-3.66760015	0.02136360
160.	2.81060004	-0.98509991	-0.33149999	-0.07090008	-3.70390010	0.01632570
165.	1.62259996	-0.98629981	-0.21960001	0.04839990	-3.68550014	0.01300000
170.	0.85369992	-0.78950012	-0.03310001	0.20620000	-3.63040042	0.00734850
175.	0.42039990	-0.40290001	-0.04559990	0.11929990	-3.56400013	0.00326000
180.	0.09200000	-0.01150000	-0.01400000	0.05180000	-3.48630023	0.00001230

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.40
PHI= 360.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	-0.04410000	0.06220000	-0.00110000	-0.07160000	1.27080011	0.01590000
5.	0.50119978	0.95589978	0.00340000	-0.08230000	1.33240020	0.01100000
10.	1.23699987	2.62680030	-0.03020000	-0.03520000	1.41100001	0.00240000
15.	2.37199998	4.58759975	-0.23199990	0.28309992	1.44039965	-0.02040000
20.	3.90790009	6.48740005	-0.37480000	0.48469990	1.47119975	-0.03820000
25.	5.67729950	8.71730042	-0.51909995	0.52079993	1.49049985	-0.06350000
30.	7.47440052	10.99480057	-0.59199995	0.39960003	1.49959993	-0.08090000
35.	9.65260124	13.17250156	-0.65429980	0.19780000	1.49829996	-0.09200000
40.	11.81889915	14.87809849	-0.71249998	-0.02700000	1.48679996	-0.10749990
45.	13.86269951	16.31570244	-0.77249998	-0.26870000	1.46900010	-0.12160000
50.	15.53470039	17.52180099	-0.82769990	-0.35939991	1.44509995	-0.14289990
55.	16.69260025	18.53889847	-0.86820000	-0.42029992	1.41569996	-0.15949990
60.	17.97413063	19.20153427	-0.83409232	-0.42090002	1.37642300	-0.18345770
65.	19.07000160	19.49000168	-0.70889992	-0.34340000	1.33949995	-0.21190000
70.	20.17486191	19.88439560	-0.67946023	-0.22487882	1.30465722	-0.21696121
75.	20.83967781	20.08165741	-0.56476372	-0.30705562	1.25581825	-0.20114481
80.	21.19297791	20.12054062	-0.52324092	-0.41944402	1.10689425	-0.19036040
85.	21.32000160	19.68309784	-0.48374042	-0.38539982	0.88399982	-0.18809171
90.	21.36000252	18.84257698	-0.44870511	-0.40603101	0.57879770	-0.18721430
95.	21.10177994	17.57977867	-0.43039772	-0.39950380	0.22174580	-0.18564181
100.	20.74709702	16.49293709	-0.42874792	-0.47194222	-0.17323650	-0.18606199
105.	20.06431770	15.15474129	-0.46398112	-0.62071723	-0.62328571	-0.18607520
110.	19.21799660	13.50319958	-0.48991451	-0.70798367	-1.11944032	-0.18234180
115.	18.22030830	11.94863892	-0.49859592	-0.27993363	-1.56897736	-0.17864430
120.	17.05624008	9.60444260	-0.55565798	-0.15274632	-1.95418775	-0.16944079
125.	15.88990974	7.61695766	-0.81863999	-0.76200473	-2.29799223	-0.15525350
130.	14.34045982	5.96681499	-0.92495167	-1.24783850	-2.60160041	-0.14346290
135.	12.49298954	4.58052826	-0.98999983	-1.19135404	-2.90490007	-0.12790769
140.	10.42232418	3.61177921	-1.02336025	-0.83687794	-3.23313236	-0.10338400
145.	8.43349457	2.27823210	-0.96680027	-0.69248563	-3.43910050	-0.07763440
150.	6.54391956	0.93739998	-0.86712670	-0.62827444	-3.61158562	-0.05465110
155.	4.44659948	-0.21123230	-0.52519327	-0.66095084	-3.68411875	-0.03609520
160.	2.94454288	-0.84503993	-0.07330039	-0.35778099	-3.67262745	-0.01461920
165.	1.86667907	-0.76349056	0.26920000	0.46055204	-3.67925191	-0.00638370
170.	1.06569862	-0.31788221	0.60555172	1.06900692	-3.64726305	-0.00414510
175.	0.34442541	-0.28721061	0.00480000	0.00807140	-3.55031204	-0.00062070
180.	0.02366000	-0.02118000	-0.02932000	-0.05454000	-3.49762821	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.96
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.05920000	-0.06160000	-0.00110000	-0.06340000	1.09130001	0.01010000
5.	0.62810004	0.90820003	-0.00160000	-0.08980000	1.18929994	0.00972500
10.	1.38450003	2.59019995	-0.00860000	-0.00010000	1.27440012	0.00245000
15.	2.60889983	4.56200027	-0.05500000	0.26059991	1.32780004	-0.01142500
20.	4.17619991	6.45339966	-0.10190000	0.45469990	1.36240005	-0.02610000
25.	6.02400064	7.89169979	-0.16180000	0.48329991	1.38619995	-0.04817500
30.	7.87630033	9.00329971	-0.21890000	0.36619991	1.40910006	-0.06245000
35.	9.72529984	10.16670036	-0.25709990	0.20600000	1.42950010	-0.07282500
40.	11.75049973	11.37449932	-0.29600000	0.10750000	1.44670010	-0.08380000
45.	13.40360069	12.70210171	-0.33620000	0.04100000	1.46139991	-0.09327500
50.	14.79619980	13.99360180	-0.35640001	-0.01860000	1.46400011	-0.10794990
55.	16.02289963	15.18860149	-0.36390001	-0.06569990	1.45229995	-0.11762501
60.	17.15279961	16.27170181	-0.37375551	-0.11280000	1.42199993	-0.12539990
65.	18.15640068	17.30709839	-0.38553581	-0.15779990	1.37089980	-0.13460970
70.	19.10525894	18.43285942	-0.42570421	-0.23121560	1.29098105	-0.13917480
75.	19.80976105	18.93619156	-0.45318601	-0.27505010	1.20136786	-0.13834301
80.	20.26280212	19.01377869	-0.45354560	-0.31940711	1.07332015	-0.12725441
85.	20.45934486	18.73413467	-0.41395870	-0.36376420	0.86902362	-0.12277090
90.	20.45449829	18.14975739	-0.40528601	-0.40594780	0.63662922	-0.12107421
95.	20.18899727	17.22557831	-0.41821781	-0.43142200	0.35271871	-0.12162940
100.	19.67371750	16.11183357	-0.42757520	-0.48460880	0.00733550	-0.12157500
105.	18.93019867	14.58280087	-0.41281331	-0.63204110	-0.37372890	-0.13380110
110.	18.02409744	13.19643688	-0.39805141	-0.64613450	-0.79482353	-0.13385201
115.	16.84527969	11.91134739	-0.39692920	-0.59769851	-1.28502464	-0.13352390
120.	15.73509979	10.85390091	-0.38102001	-0.54843211	-1.74571586	-0.12738401
125.	14.55737782	9.75112152	-0.35789600	-0.47724640	-2.14133835	-0.11942311
130.	13.04070854	8.21422005	-0.30920410	-0.35669670	-2.48229980	-0.11001700
135.	11.44087887	6.37894344	-0.39255559	-0.08788110	-2.76789999	-0.10084920
140.	9.70393034	4.76999998	-0.51899993	0.04190010	-3.00950003	-0.09990000
145.	7.98600006	3.37989998	-0.59689993	-0.34090000	-3.18450046	-0.67390000
150.	6.22297812	2.06333256	-0.70376241	-0.54609591	-3.35084510	-0.05393270
155.	4.44394159	1.23440099	-0.64215982	-0.48962900	-3.43658042	-0.03644860
160.	2.86483121	0.29171041	-0.19229990	0.08990911	-3.45998001	-0.02154450
165.	1.86530018	-0.35537580	0.30090001	0.54271680	-3.48266029	-0.00830980
170.	0.84860623	-0.50677240	0.30763170	0.55563331	-3.51081324	-0.00062450
175.	0.27321100	-0.36479980	0.05760000	0.28273770	-3.48705387	0.00100000
180.	0.00000000	-0.00000000	0.01710000	-0.00820000	-3.51289988	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.96
PHI= 45.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.09470000	-0.00720000	-0.00340000	-0.05130000	1.08999991	0.01080000
5.	0.65950000	0.84679991	0.00820000	-0.08040000	1.16389990	0.01290000
10.	1.35509980	2.25070000	0.10519990	-0.20629991	1.29310012	0.01260000
15.	2.45139980	4.07439995	0.18290000	-0.21959990	1.31990004	0.01090000
20.	3.91279960	5.80889980	0.16090000	-0.15950000	1.33899975	0.00360090
25.	5.71269989	7.06239986	0.11100000	0.08560000	1.34920001	-0.00980000
30.	7.56590033	8.10339928	0.09100000	-0.05620000	1.35809994	-0.03670000
35.	9.42040062	8.98489952	0.21619990	-0.23410000	1.38159990	-0.06730000
40.	11.12140083	10.14709949	0.37079990	-0.09400000	1.41339993	-0.09430000
45.	12.72509956	11.54939938	0.54310000	0.05400000	1.44950002	-0.11000001
50.	14.15300083	12.95039940	0.68989992	0.23310000	1.44359994	-0.12639990
55.	15.44070053	14.26749992	0.81099981	0.42189991	1.43649995	-0.15539990
60.	16.59669876	15.35149956	0.91644812	0.55509990	1.40699995	-0.17850000
65.	17.74462891	16.54998398	0.97332692	0.68379992	1.34719980	-0.19380380
70.	18.64205551	17.51728058	1.03143382	0.79023671	1.27500010	-0.20520000
75.	19.30904388	17.93557358	1.08762765	0.85433602	1.19829965	-0.21530491
80.	19.76301956	17.99210548	1.13162374	0.92750001	1.06136322	-0.22137751
85.	19.96178246	17.54379654	1.17562032	1.01214266	0.88234580	-0.22449990
90.	19.98450089	16.78547668	1.18928576	1.06152523	0.65323412	-0.22410001
95.	19.72922134	15.66963959	1.16127145	1.11638916	0.34819600	-0.22084171
100.	19.23393631	14.28831673	1.12756002	1.13269663	0.02386390	-0.21434599
105.	18.49990082	12.84950066	1.06757975	1.08657765	-0.36535260	-0.20730400
110.	17.59080887	11.46777248	1.04848886	1.01740003	-0.81009477	-0.19839489
115.	16.59412384	10.17310143	0.96899402	0.95689380	-1.31614923	-0.18622740
120.	15.43930817	9.05445194	0.90499210	0.86535072	-1.77548134	-0.16898690
125.	14.17657471	8.03866386	0.82474750	0.75333011	-2.16739655	-0.15260260
130.	12.74113846	6.91937256	0.71911132	0.68488061	-2.52414894	-0.13527410
135.	11.15250587	5.54434204	0.32982576	0.49156421	-2.80764008	-0.12030841
140.	9.50089931	4.18600035	-0.06900007	0.23229992	-3.04339981	-0.10390001
145.	7.72410011	2.94790006	-0.06710011	0.21729994	-3.22249985	-0.08320000
150.	5.88282633	1.87741053	-0.08572739	0.19180992	-3.35993600	-0.05081700
155.	4.26000118	0.88044077	0.03117460	0.12687670	-3.45901990	-0.03377050
160.	2.97240019	0.04852220	-0.08360010	0.36189601	-3.49411726	-0.02200900
165.	1.70190012	-0.68184352	-0.20190001	0.50955081	-3.49961042	-0.01503160
170.	0.72742510	-0.71249992	-0.40509990	0.49522942	-3.48672152	-0.00499410
175.	0.25477031	-0.45394760	-0.10016859	0.11664560	-3.45689535	-0.00062430
180.	0.00000000	0.01500000	0.02210000	-0.01370000	-3.40750019	0.00006030

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.96
PHI= 90.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.04920000	0.13330001	-0.02440000	-0.01150000	1.09069991	0.01060000
5.	0.42640001	0.96069992	-0.03210000	-0.00990000	1.17619991	0.01272500
10.	1.17529964	2.38350010	-0.02810000	-0.12770000	1.30040002	0.01155000
15.	2.31790018	4.39809990	-0.01840000	-0.27700001	1.34319985	0.00247500
20.	3.80630016	6.07370043	0.00300000	-0.35499990	1.38710010	-0.00370000
25.	5.53190041	7.16839981	0.00400000	-0.21660000	1.43009984	-0.00877500
30.	7.46469975	8.27689934	0.00556220	-0.13209990	1.46860003	-0.01135000
35.	9.38310051	8.95140076	0.00712440	-0.07460000	1.49759996	-0.01492500
40.	11.14209938	10.21780014	0.00873420	-0.03940000	1.51519990	-0.02040000
45.	12.96290016	11.57399845	0.01036490	0.03584710	1.51909995	-0.02297500
50.	14.37589931	12.68129921	0.01253230	0.10875980	1.50959980	-0.02562400
55.	15.70940018	13.72500038	0.01863548	0.17947870	1.48479990	-0.02827300
60.	16.76699829	14.76989841	0.02473850	0.27700391	1.44490004	-0.03092200
65.	17.95261765	16.09685898	0.03509010	0.35772550	1.39975202	-0.03322170
70.	18.94463348	17.14276505	0.05000750	0.40727580	1.32640004	-0.03507790
75.	19.65214539	17.65611649	0.06516490	0.40313470	1.21595955	-0.03590290
80.	20.15301132	17.88058853	0.08395500	0.36659980	1.06915486	-0.03673030
85.	20.35169220	17.56747055	0.10274510	0.33231431	0.88294530	-0.03759550
90.	20.37471771	16.95711899	0.10488780	0.31999660	0.64493120	-0.03844010
95.	20.13119888	15.91425705	0.09972760	0.31465411	0.36287010	-0.03836510
100.	19.72140884	14.73805141	0.09189210	0.28153971	0.00748420	-0.03819110
105.	18.87635803	13.29047966	0.08405670	0.28334910	-0.32504880	-0.03324110
110.	18.02569962	11.84290886	0.06747710	0.28515881	-0.80946553	-0.02838760
115.	16.90338135	10.52745438	0.05071900	0.31527200	-1.30577385	-0.02782640
120.	15.66384983	9.27045250	0.03438720	0.35557860	-1.76512325	-0.02751840
125.	14.31858253	8.17464733	0.02410240	0.35358840	-2.15142870	-0.03090400
130.	12.88040924	6.56814766	0.00451000	0.35079980	-2.50677180	-0.03087560
135.	11.27206802	5.31339979	-0.05681390	0.23484991	-2.79523802	-0.02791450
140.	9.50989914	4.46379995	-0.20290001	0.11889999	-3.00449991	-0.02470000
145.	7.76089954	3.33290029	-0.20839511	0.15130000	-3.19377732	-0.01997550
150.	5.96982288	2.17025471	-0.11389020	0.25890002	-3.31262302	-0.01348530
155.	4.30626631	1.16758513	-0.03140880	0.03100000	-3.40826464	-0.00817220
160.	2.82705688	0.21155410	0.10633320	-0.22440001	-3.45148039	-0.00136190
165.	1.59459984	-0.61231971	-0.10810000	-0.11059990	-3.48105669	-0.00063120
170.	0.74071360	-0.80842012	-0.11275190	0.09501331	-3.47851729	-0.00050000
175.	0.28155950	-0.50095922	0.00234220	0.15437770	-3.46307182	0.00174050
180.	0.02000000	0.00590000	0.02000000	-0.02130000	-3.48100185	0.00022760

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.96
PHI= 135.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.04210000	0.11149990	-0.04540000	0.00000000	1.09459984	0.00970000
5.	0.54400003	1.07189965	-0.05460000	-0.01220000	1.25390005	0.00697500
10.	1.11590004	2.53389978	-0.14890000	-0.13150001	1.35369992	0.00285000
15.	2.34030008	4.53450012	-0.27059990	-0.23949990	1.36849976	0.00122500
20.	3.80630016	6.29399967	-0.29629990	-0.40120000	1.38469994	0.01160000
25.	5.50170088	7.58700037	-0.33329991	-0.48199990	1.41510010	0.02077500
30.	7.29550028	8.61230087	-0.41289991	-0.54429990	1.45149994	0.03895000
35.	9.30680084	9.61030006	-0.54689991	-0.59850001	1.47950006	0.05042500
40.	11.10680008	10.84519958	-0.69229990	-0.65269983	1.49810004	0.06669990
45.	12.64089966	12.15619946	-0.85159987	-0.69480002	1.50009990	0.08357490
50.	13.91290092	13.22789955	-0.92269993	-0.74720001	1.50049984	0.10515000
55.	15.08849907	14.21980095	-0.98729992	-0.85539991	1.48289990	0.13682500
60.	16.16939926	15.15489960	-1.03779995	-0.96139991	1.44639981	0.16260000
65.	17.27149963	15.95969963	-1.05509984	-1.07900000	1.39739990	0.17198640
70.	18.26470184	16.58800125	-1.07259965	-1.21009994	1.33330023	0.18264990
75.	19.08909988	16.98339653	-1.08999991	-1.30189991	1.24000001	0.18612501
80.	19.66939926	17.09669876	-1.10060000	-1.38350010	1.09949994	0.18639991
85.	19.92499924	16.82120132	-1.10809994	-1.42770004	0.91689992	0.17547500
90.	19.95669937	16.20989990	-1.11570001	-1.40359986	0.71599990	0.16134991
95.	19.82139969	15.27629948	-1.08659995	-1.37799990	0.47180000	0.15632491
100.	19.30310059	13.98250008	-1.05110002	-1.34949994	0.12670000	0.14890000
105.	18.61349869	12.60969925	-1.01199985	-1.31369984	-0.29600000	0.14680000
110.	17.83010101	11.54859924	-0.89080000	-1.27250004	-0.77679992	0.14090000
115.	16.83660126	10.35009956	-0.76810002	-1.21140003	-1.26079965	0.13429990
120.	15.76390076	9.17080021	-0.64219981	-1.12490010	-1.76139975	0.12500000
125.	14.43779945	7.98660040	-0.54920000	-0.94430000	-2.22770023	0.11649990
130.	13.01029968	6.62950039	-0.45459980	-0.84930003	-2.64659977	0.0_000000
135.	11.40500069	5.64099979	-0.06459999	-0.60350001	-2.95420003	0.07809990
140.	9.57650089	4.64359999	0.42810008	-0.25389993	-3.16610003	0.06430000
145.	7.65209961	3.57770014	0.46870002	-0.07209992	-3.30720019	0.04707230
150.	5.88470030	2.89470029	0.43979999	-0.02470002	-3.41979980	0.03413810
155.	4.29090023	1.78509974	0.21380001	-0.13919990	-3.48620009	0.02417920
160.	2.73990011	0.41259980	0.14420000	-0.57640004	-3.50950003	0.01777940
165.	1.45129991	-0.76380002	0.20520000	-0.84019983	-3.51679993	0.01754860
170.	0.75479990	-0.83929992	0.22580001	-0.92800003	-3.50349998	0.01063240
175.	0.40419990	-0.71389991	0.12619999	-0.40500000	-3.49440002	0.00453800
180.	0.10110000	-0.27120000	0.02140000	-0.15660000	-3.47189736	0.00022640

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.96
PHI= 180.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.12529990	0.06150000	-0.03170000	0.04710000	1.09039974	0.00980000
5.	0.57239991	1.13389993	-0.04950000	0.05359990	1.26479995	0.00440000
10.	1.34430003	2.80450010	-0.02540000	-0.01350000	1.33360004	0.00900000
15.	2.44370008	4.90799999	0.22310001	-0.51380002	1.36640000	0.01510000
20.	4.09609985	6.85120010	0.33469990	-0.67799991	1.40400004	0.01780000
25.	5.83939934	8.16580009	0.44610000	-0.70459992	1.43680012	0.02580000
30.	7.66589975	9.35580063	0.43309990	-0.62580001	1.46860003	0.03440000
35.	9.43589973	10.35980034	0.38099980	-0.52759987	1.49899995	0.04280000
40.	11.35169983	11.55649853	0.26120001	-0.34549990	1.52129996	0.05000000
45.	13.11840153	12.77890015	0.17510000	-0.25809991	1.53749950	0.06030000
50.	14.50310040	13.99850082	0.18790001	-0.21570000	1.53059995	0.06860000
55.	15.79950047	15.19530010	0.24100000	-0.14350000	1.51699984	0.07440000
60.	16.93779945	16.19670105	0.32099980	-0.04950000	1.48810005	0.07590000
65.	17.94300270	17.14699936	0.39510000	0.04790000	1.43260002	0.07740001
70.	18.81640244	17.91640091	0.47539991	0.14289990	1.35739994	0.07910000
75.	19.50679970	16.49039841	0.56309992	0.24519990	1.25159991	0.08650000
80.	20.02700043	18.83549881	0.60229993	0.33230001	1.11599994	0.08790000
85.	20.28339958	18.70959854	0.62379992	0.39420000	0.93750000	0.07980000
90.	20.31529999	18.29790115	0.63839990	0.41729990	0.70990002	0.05700000
95.	20.12549782	17.60709953	0.62519991	0.42479980	0.43669990	0.05560000
100.	19.54169846	16.47439957	0.61220002	0.40509990	0.11250000	0.05689990
105.	18.78409958	14.96699905	0.59899992	0.36790001	-0.27810001	0.05980000
110.	17.87109756	13.57750130	0.58209991	0.32080001	-0.71210003	0.06280000
115.	16.78599930	12.20090008	0.56509990	0.27480000	-1.23399985	0.06850000
120.	15.63789940	10.96300125	0.54789990	0.24649990	-1.73270023	0.08560000
125.	14.41010094	9.57340050	0.53020000	0.22659990	-2.23019981	0.08329990
130.	13.01790047	7.80039930	0.51230001	0.24309990	-2.66460013	0.06550000
135.	11.55869961	6.27740097	0.59430003	0.17700000	-2.95279980	0.06280460
140.	9.93270016	4.84499979	0.72350001	0.18299989	-3.15740013	0.05914780
145.	8.18350029	3.77900028	0.69849980	0.46709993	-3.30389977	0.05437320
150.	6.54960012	2.65809989	0.62330002	0.43239999	-3.37229991	0.04035570
155.	4.55159998	1.75810027	0.44819981	0.33510000	-3.43319988	0.02429810
160.	2.86329985	0.46109989	0.26500002	-0.04890001	-3.46700025	0.01540690
165.	1.70359993	-0.29259980	-0.03760010	-0.07240000	-3.49230003	0.00613900
170.	1.02110004	-0.49199980	-0.00550000	0.05810000	-3.50220037	0.00391930
175.	0.43660000	-0.42350000	-0.05900000	-0.44329992	-3.48390007	0.00353800
180.	0.07179990	-0.01100000	0.00730000	-0.17309991	-3.46860003	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.96
PHI= 225.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.02500000	-0.00239990	-0.02080000	0.09340000	1.09629965	0.01030000
5.	0.50179982	0.92299992	0.00350000	0.10120000	1.20079982	0.01375000
10.	1.24510002	2.61110020	0.16270000	-0.05690000	1.27940011	0.02240000
15.	2.36899996	4.43089962	0.34770000	-0.07150000	1.34599996	0.02755000
20.	3.81050014	6.08410025	0.22669990	0.14229991	1.40529990	0.02860000
25.	5.57719994	7.28359985	0.17361701	0.22220001	1.45490003	0.02975000
30.	7.41530085	8.26070023	0.12539931	0.31050000	1.49690020	0.02890000
35.	9.33219910	9.25620079	0.10786080	0.38470000	1.53099990	0.02125000
40.	11.11280060	10.37840080	0.09032240	0.44110000	1.55599976	0.01640000
45.	12.77700043	11.92369938	0.07278410	0.48220000	1.57739985	0.01345000
50.	14.15119934	13.32329941	0.05978560	0.50629991	1.57620001	0.01510920
55.	15.43479824	14.33130074	0.04979140	0.52209991	1.55939984	0.01676840
60.	16.53569031	15.21489906	0.03979720	0.51716733	1.51559985	0.01842770
65.	17.81137657	16.32437515	0.02653600	0.50342262	1.47145844	0.02014220
70.	18.78401947	17.32718277	0.00707790	0.48060590	1.38892496	0.02271700
75.	19.48410034	17.75053787	0.02397620	0.44182041	1.26115060	0.02554920
80.	20.01153755	17.89058685	0.00995920	0.37660640	1.09573305	0.02658910
85.	20.19766235	17.57747269	0.00930130	0.32026130	0.90165651	0.02747740
90.	20.19471741	16.84944153	0.00864340	0.28162780	0.65862310	0.02733680
95.	19.94921875	15.91491699	0.00780200	0.25532320	0.35366470	0.02700190
100.	19.45283890	14.76866055	-0.00148400	0.21547320	0.00038830	0.02413720
105.	18.66992187	13.35370064	-0.02284000	0.17601991	-0.42807150	0.01683400
110.	17.75710678	12.16288185	-0.01556720	0.15420181	-0.88688803	0.01384160
115.	16.74842072	11.06542587	-0.01990740	0.12518691	-1.39533770	0.01118850
120.	15.62496853	9.92975712	-0.02462680	0.09113330	-1.92816114	0.00859870
125.	14.29938412	8.85307217	-0.02022090	-0.00730670	-2.34343338	0.00696500
130.	12.87876129	7.63968945	-0.01585180	-0.03986770	-2.71013832	0.00522100
135.	11.23294353	6.07834005	0.03767660	0.03660560	-2.98217010	0.00114190
140.	9.47069931	4.51199961	0.17700000	0.13480000	-3.19210005	-0.00175360
145.	7.77190018	3.20590019	0.21281180	0.07670000	-3.35209990	-0.00570840
150.	6.01023483	2.07952881	0.15533701	-0.13094711	-3.47268724	-0.00853470
155.	4.34126616	1.11098135	0.16400000	-0.06330000	-3.53785181	-0.01050000
160.	2.83435106	0.15118980	0.04201700	-0.21751979	-3.56335878	-0.00825680
165.	1.62649965	-0.50817531	0.14679840	0.04060000	-3.57673788	-0.00519080
170.	0.72615790	-0.75806051	0.45300001	0.33091962	-3.54334688	-0.00442970
175.	0.25562090	-0.45209280	0.20379990	-0.05258051	-3.49601650	-0.00187940
180.	-0.00400000	0.00100000	0.05890000	0.00708620	-3.44220018	0.00006390

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.96
PHI= 270.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.05330000	-0.07889990	0.00140000	0.02090000	1.00850002	0.01120000
5.	0.53820002	0.76689982	-0.00670000	0.09700000	1.22039986	0.01820000
10.	1.30839992	2.35449982	0.00170000	0.00390000	1.34820020	0.02170000
15.	2.35960007	4.11100006	0.01000000	-0.00450000	1.38489985	0.02640000
20.	3.95429993	5.76780033	0.02270000	-0.01460000	1.41580021	0.02810000
25.	5.78230047	6.91549969	0.03710000	0.00670000	1.45549965	0.03200000
30.	7.62[illegible]80061	7.76029968	0.05260000	0.01300000	1.49189985	0.03570000
35.	9.57150078	8.64369965	0.07060000	-0.02280000	1.53010011	0.04320000
40.	11.42119980	9.77330017	0.08950000	-0.05610000	1.56800020	0.04890000
45.	13.13879967	10.88109970	0.11080000	-0.08720000	1.58470011	0.05280000
50.	14.57519817	12.20259953	0.13220000	-0.11370000	1.56110001	0.05420000
55.	15.83279991	13.35799980	0.15419990	-0.13929990	1.52749991	0.05370000
60.	17.04299927	14.31080151	0.17609990	-0.16209990	1.48119974	0.05220000
65.	18.06280136	15.15620041	0.18860000	-0.18210000	1.41919982	0.04369800
70.	18.92480087	15.79290009	0.20050000	-0.20220000	1.33669984	0.03790000
75.	19.53789902	16.20449829	0.21239990	-0.22149990	1.23379993	0.02320000
80.	20.04479980	16.42269897	0.22099990	-0.23830000	1.09260011	0.01450000
85.	20.29880142	16.34529877	0.22960000	-0.25520000	0.93309993	0.00740000
90.	20.41109848	16.04890060	0.23629990	-0.26150000	0.73290002	0.00330000
95.	20.12289810	15.31270027	0.22810000	-0.24570000	0.47180000	0.00040000
100.	19.55450058	14.30209923	0.21969990	-0.22810000	0.16520000	-0.00120000
105.	18.84229851	13.11109924	0.21120000	-0.21039990	-0.22139990	-0.00300000
110.	18.02619934	11.80299854	0.20269990	-0.18449990	-0.67960000	-0.00690000
115.	16.97789955	10.58449936	0.19209990	-0.14950000	-1.18789995	-0.00540000
120.	15.73099995	9.28909874	0.17940000	-0.11489990	-1.71129990	-0.00240000
125.	14.38290024	7.72060061	0.16659990	-0.08030000	-2.18550014	0.00430000
130.	13.01159954	6.37989998	0.15200000	-0.05530000	-2.62790036	0.00750000
135.	11.46940041	5.20889984	0.18650000	0.00960000	-2.95699978	0.01303210
140.	9.75539970	4.19249964	0.32060000	0.07060000	-3.16200018	0.01712080
145.	7.85100031	3.31590033	0.35390002	-0.02690000	-3.30180001	0.01973590
150.	6.12759972	2.55109978	0.28590000	-0.24680001	-3.39599991	0.01746300
155.	4.47079992	1.52548575	0.20660000	-0.18850000	-3.45900011	0.01018490
160.	2.92490005	0.34399980	0.12200000	-0.20030001	-3.50200009	0.00809990
165.	1.75360000	-0.45771080	0.16980000	-0.31569991	-3.51219988	0.00567860
170.	0.79769993	-0.84329993	0.11659990	-0.45510003	-3.51030016	0.00458120
175.	0.35820001	-0.64189982	0.03910000	-0.35239992	-3.48013401	0.00274350
180.	0.12750000	-0.15899990	0.03050000	-0.09190000	-3.47365689	0.00022760

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 1.96
PHI= 315.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.07030000	0.00440000	0.01360000	-0.05670000	1.09229994	0.0[illegible]0000
5.	0.55540001	0.82330000	-0.02240000	0.05380000	1.17799985	0.01550000
10.	1.27320004	2.42240000	-0.22220001	0.27609980	1.27539992	0.00960000
15.	2.40770006	4.18179989	-0.45929980	0.39620000	1.31159985	-0.00030000
20.	3.93860006	6.00909996	-0.39359990	0.13299990	1.35369992	0.00080000
25.	5.69139957	7.24270010	-0.23800001	-0.22170000	1.40300012	-0.00470000
30.	7.57460022	8.16110039	-0.08600000	-0.33739990	1.44799995	-0.00230000
35.	9.48819923	9.09370041	-0.02520000	-0.41569990	1.48200011	0.00000000
40.	11.42040157	10.20149994	0.02660000	-0.45179990	1.50510001	0.00210000
45.	13.09779930	11.50250149	0.06410000	-0.48780000	1.51090002	0.00030000
50.	14.46990108	12.59019947	0.09140000	-0.51580000	1.49909985	-0.00440000
55.	15.65230083	13.57649994	0.11240000	-0.53509992	1.47350001	-0.01040000
60.	16.73979950	14.53380013	0.13349991	-0.55419987	1.44059992	-0.01450000
65.	17.79479980	15.40039921	0.15390000	-0.56980002	1.39170003	-0.01650000
70.	18.67229843	16.08689880	0.16810000	-0.57560003	1.32009995	-0.01830000
75.	19.52640343	16.70690155	0.18239990	-0.58120000	1.22550011	-0.02000000
80.	20.10689926	17.11199951	0.19670001	-0.58340001	1.07949984	-0.02070000
85.	20.32740021	17.20610046	0.21089990	-0.57830000	0.91890001	-0.02120000
90.	20.40420151	16.87329865	0.20710000	-0.57079983	0.71589983	-0.02310000
95.	20.13249969	16.10010147	0.20100001	-0.54069990	0.44720000	-0.02500000
100.	19.58319855	14.95749950	0.19490001	-0.50759977	0.12379990	-0.02860000
105.	18.78850174	13.63899994	0.18880001	-0.47450000	-0.27700001	-0.03200000
110.	17.82740021	12.28160095	0.18070000	-0.43849990	-0.67509991	-0.03550000
115.	16.73410034	10.83469963	0.17150000	-0.40039[illegible]	-1.14829993	-0.03910000
120.	15.59789848	9.45569992	0.16220000	-0.36240[illegible]	-1.63439965	-0.03707750
125.	14.17739964	8.16470051	0.15290000	-0.33919990	-2.08589983	-0.03498110
130.	12.90140057	6.94549942	0.14250000	-0.32099980	-2.55329990	-0.02946400
135.	11.40920067	5.81710005	0.18040000	-0.25289989	-2.85400009	-0.01568800
140.	9.72620010	4.77310038	0.31839991	-0.20239991	-3.06699991	-0.00565160
145.	8.00720024	3.77580023	0.35450000	-0.31259990	-3.20170021	0.01563770
150.	6.21220016	2.99939990	0.28340000	-0.53629988	-3.28679991	0.01745000
155.	4.62229967	2.09100008	0.19939999	-0.40900001	-3.35720015	0.01405600
160.	2.90899992	0.58719993	-0.11410000	-0.21669990	-3.42010021	0.00873910
165.	1.63420010	-0.42449990	-0.12220001	-0.33859980	-3.46059990	0.00739900
170.	0.92479992	-0.74679983	-0.08409990	-0.48130003	-3.46519971	0.00667810
175.	0.42289990	-0.47359991	-0.06120000	-0.39980000	-3.46470022	0.00335420
180.	0.12490000	-0.06160000	-0.01990000	-0.05490000	-3.46910000	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*M.REF (STA 1255.9)

MACH= 1.96
PHI= 360.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.05920000	-0.06160000	-0.00110000	-0.06340000	1.09130001	0.01010000
5.	0.62810004	0.90820003	-0.00160000	-0.08980000	1.18929994	0.00972500
10.	1.38450003	2.59019995	-0.00860000	-0.00010000	1.27440012	0.00245000
15.	2.68889983	4.56200027	-0.05500000	0.26059991	1.32780004	-0.01142500
20.	4.17619991	6.45339966	-0.10190000	0.45469990	1.36240005	-0.02610000
25.	6.02400064	7.89169979	-0.16180000	0.48329991	1.38619995	-0.04817500
30.	7.87630033	9.00329971	-0.21890000	0.36619991	1.40910006	-0.06245000
35.	9.72529984	10.16670036	-0.25709990	0.20600000	1.42950010	-0.07282500
40.	11.75049973	11.37449932	-0.29600000	0.10750000	1.44670010	-0.08380000
45.	13.40360069	12.70210171	-0.33620000	0.04100000	1.46139991	-0.09327500
50.	14.79619980	13.99360180	-0.3564001	-0.01860000	1.46400011	-0.10794990
55.	16.02289963	15.18860149	-0.3639001	-0.06569990	1.45229995	-0.11762501
60.	17.15279961	16.27170181	-0.37375551	-0.11280000	1.42199993	-0.12539990
65.	18.15640068	17.30709839	-0.38553581	-0.15779990	1.37069980	-0.13460970
70.	19.10525894	18.43285942	-0.42570421	-0.23121560	1.29098105	-0.13917480
75.	19.80976105	18.93619156	-0.45318601	-0.27505010	1.20136786	-0.13834301
80.	20.26280212	19.01377869	-0.45354560	-0.31940711	1.07332015	-0.12725441
85.	20.45934486	18.73413467	-0.41395870	-0.36376420	0.86902362	-0.12277090
90.	20.45449829	18.14975739	-0.40528601	-0.40594780	0.63662922	-0.12107421
95.	20.18899727	17.22557831	-0.41821781	-0.43142200	0.35271871	-0.12162940
100.	19.67371750	16.11183357	-0.42757520	-0.48460880	0.00733550	-0.12157500
105.	18.93019867	14.58280087	-0.41281331	-0.63204110	-0.37372890	-0.13380110
110.	18.02409744	13.19643688	-0.39805141	-0.64613450	-0.79482353	-0.13385201
115.	16.84527969	11.91134739	-0.39692920	-0.59769851	-1.28502464	-0.13352390
120.	15.73509979	10.85390091	-0.38102001	-0.54843211	-1.74571586	-0.12738401
125.	14.55737782	9.75112152	-0.35789600	-0.47724640	-2.14133835	-0.11942311
130.	13.04070854	8.21422005	-0.30920410	-0.35669676	-2.48229980	-0.11001700
135.	11.44087887	6.37894344	-0.39255559	-0.08788110	-2.76789999	-0.10084920
140.	9.70390034	4.76999998	-0.51899993	0.04190010	-3.00950003	-0.08990000
145.	7.98600006	3.37989998	-0.59689993	-0.34090000	-3.18450046	-0.07390000
150.	6.22297812	2.06333256	-0.70376241	-0.54609591	-3.35084510	-0.05393270
155.	4.44394159	1.23440099	-0.64215982	-0.48962900	-3.43658042	-0.03644860
160.	2.86483121	0.29171041	-0.19229990	0.08990911	-3.45998001	-0.02154450
165.	1.86530018	-0.35537580	0.30090001	0.54271680	-3.48266029	-0.00830900
170.	0.84860623	-0.50677240	0.30763170	0.55563331	-3.51081324	-0.00062450
175.	0.27321100	-0.36479980	0.05760000	0.28273770	-3.48705387	0.00100000
180.	0.00000000	-0.00600000	0.01710000	-0.00820000	-3.51289988	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 2.50
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	-0.11530000	0.20089990	0.01830000	0.00460000	0.96920002	0.02430000
5.	0.48049992	1.55349982	0.02260000	0.01810000	0.96109992	0.02542500
10.	1.27509987	2.84140015	-0.03370000	-0.00470240	0.96370000	0.02025000
15.	2.58240008	4.18799973	-0.14690000	-0.02060380	0.97049981	0.00757500
20.	4.00590038	5.33370018	-0.22979990	-0.03229080	1.01689994	-0.00560000
25.	5.50189972	6.25580025	-0.26480001	-0.04558820	1.10130000	-0.01927500
30.	7.24940014	7.37260008	-0.24320000	-0.05607530	1.22090006	-0.03355000
35.	8.90110016	8.52709961	-0.23729990	-0.06219630	1.35409975	-0.05582500
40.	10.67490005	9.81850052	-0.26019990	-0.07216710	1.45429981	-0.06750000
45.	12.33540058	11.21789932	-0.31970000	-0.08059670	1.49720001	-0.08107500
50.	13.76570034	12.48019981	-0.37410000	-0.09431790	1.51779985	-0.09075000
55.	15.14470100	13.74060059	-0.40630001	-0.10600540	1.50889993	-0.09922490
60.	16.31049919	15.03370094	-0.41909990	-0.12781911	1.48159993	-0.10520000
65.	17.32232475	16.38526535	-0.44682401	-0.17283620	1.39361691	-0.11057500
70.	18.35067368	17.38975525	-0.46969521	-0.26328811	1.28572822	-0.11517040
75.	19.09099770	18.10601807	-0.48612401	-0.31695580	1.17965412	-0.11447270
80.	19.56673813	18.34431648	-0.48812151	-0.35389560	1.04502892	-0.10159720
85.	19.80999947	18.23484039	-0.49008250	-0.37426311	0.88582063	-0.09770200
90.	19.77227020	17.78571320	-0.48682860	-0.38622740	0.68611783	-0.09613901
95.	19.52855873	17.00899887	-0.47982740	-0.38302371	0.45369670	-0.09508000
100.	18.99305725	16.05387497	-0.47198510	-0.38410020	0.15710010	-0.09718639
105.	18.21932983	14.62109947	-0.46187520	-0.38429990	-0.18568550	-0.11118060
110.	17.27999878	13.25000000	-0.44929990	-0.37466401	-0.61229992	-0.11029990
115.	16.22011185	12.07356167	-0.43379891	-0.35104001	-1.13090372	-0.10916470
120.	14.87509918	10.84640026	-0.41034001	-0.32911590	-1.64250755	-0.10637639
125.	13.69978333	9.70222092	-0.39619660	-0.29802090	-2.12598515	-0.10219130
130.	12.29448414	8.45368671	-0.37838191	-0.29109350	-2.50652385	-0.09195360
135.	10.68356323	7.02374792	-0.44997600	-0.28085160	-2.81498170	-0.08075900
140.	9.04149914	5.57399940	-0.46089992	-0.18650000	-3.04650021	-0.06860000
145.	7.56626606	4.31506062	-0.49139020	-0.18671140	-3.23491430	-0.05693330
150.	5.92538786	3.20071554	-0.48117992	-0.26450861	-3.34767532	-0.04384540
155.	4.05011940	2.14870501	-0.46984461	-0.35185999	-3.42501640	-0.03265170
160.	2.72379994	1.22694337	-0.29147300	-0.33423480	-3.45498395	-0.02089080
165.	1.69432127	0.39310110	0.07888170	0.14420591	-3.46625590	-0.00888430
170.	0.83543772	-0.25254300	0.23788811	0.39167562	-3.51325035	-0.00280620
175.	0.30155960	-0.37572470	0.09680000	0.12851191	-3.48726583	-0.00010390
180.	0.04690000	0.01390000	0.03500000	0.01300000	-3.51411247	0.00020000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 2.50
PHI= 45.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.03700000	0.09740000	0.00520000	-0.03670000	0.97259992	0.00230000
5.	0.48609990	1.15120006	0.02960000	-0.09920000	0.98930001	0.00337500
10.	1.28759992	2.70190001	0.09909990	-0.15079990	1.02449965	0.00175000
15.	2.52829981	4.13269997	0.14179990	-0.08180000	1.05769992	-0.00007500
20.	3.95390010	5.22210026	0.15329990	0.00880000	1.09559965	-0.01520000
25.	5.46140003	6.14350033	0.15701030	0.05430000	1.16079974	-0.03592500
30.	7.09990025	7.13390017	0.20190001	0.00040000	1.22319984	-0.04935000
35.	8.72089958	8.36330032	0.34140000	0.00850000	1.31390011	-0.06747501
40.	10.42520046	9.62240028	0.41579980	0.10920000	1.39119995	-0.08280000
45.	11.95319939	10.83289909	0.49290001	0.22970000	1.45599985	-0.09972500
50.	13.40090084	12.01530075	0.56330001	0.32589990	1.51020002	-0.12911500
55.	14.68490028	13.18279934	0.64419991	0.43949991	1.50350010	-0.15067381
60.	15.97680187	14.34900188	0.70149720	0.53909987	1.44909990	-0.16971260
65.	17.21039963	15.64390087	0.75953221	0.63010001	1.38360000	-0.18864501
70.	18.06016350	16.78443527	0.81798571	0.64393473	1.28556061	-0.20279761
75.	18.80027771	17.37229919	0.86789811	0.67293042	1.17561603	-0.21027181
80.	19.27478409	17.54501724	0.88423371	0.75148112	1.04191685	-0.21541491
85.	19.50000000	17.27816772	0.90829182	0.86266202	0.88116080	-0.21780871
90.	19.47227097	16.59988022	0.95039600	0.95165831	0.69208771	-0.21739271
95.	19.23965454	15.68491745	0.92711771	1.00891781	0.44612890	-0.21369581
100.	18.76361847	14.54095840	0.88711101	1.06839323	0.16727000	-0.20895259
105.	18.02052689	13.22180080	0.85125363	1.10782790	-0.19008440	-0.20214400
110.	17.13999939	11.94000053	0.79456961	1.09546423	-0.61210001	-0.19050759
115.	16.12931442	10.92144775	0.73399723	1.04993200	-1.08899724	-0.17757599
120.	14.92559910	9.82151985	0.67807990	0.97938001	-1.64385200	-0.15959600
125.	13.65988159	8.75803566	0.60457760	0.87539572	-2.11909914	-0.14447530
130.	12.15502453	7.65692520	0.51892233	0.74841720	-2.50740957	-0.12885749
135.	10.61550426	6.51121140	0.17941171	0.49919161	-2.81962466	-0.11069400
140.	9.02580070	5.10699940	-0.08692089	0.11279988	-3.04930043	-0.09159190
145.	7.25578022	3.97582245	-0.14788079	0.09260389	-3.23515725	-0.07310931
150.	5.68200016	3.25768065	-0.13338000	0.10268602	-3.35198498	-0.04550000
155.	4.09350014	2.32266474	-0.11165741	0.01389208	-3.44640017	-0.03576070
160.	2.77916980	1.16615844	-0.16139901	0.07171200	-3.49826670	-0.02268370
165.	1.62726104	0.23597710	-0.14726570	0.34549999	-3.53940010	-0.01366110
170.	0.69424891	-0.45401600	-0.17081150	0.15336181	-3.54790306	-0.00698190
175.	0.30509990	-0.41105491	0.01544060	0.33903900	-3.54196739	-0.00120550
180.	0.02600000	0.05780000	0.05200000	0.01410000	-3.55470371	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 2.50
PHI= 90.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.06840000	0.15580000	-0.01370000	0.01690000	0.97520000	0.01560000
5.	0.53340000	1.25640011	0.00440000	-0.00110000	0.99539977	0.01227880
10.	1.24009991	2.71990013	0.01160000	-0.04740000	1.01139975	0.00936560
15.	2.39580011	3.90910006	0.00280000	-0.05089990	1.05499995	0.00548810
20.	3.83479977	4.96280003	-0.00830000	-0.02590000	1.10529995	0.00144000
25.	5.34809971	5.75740004	-0.02670000	0.03900000	1.17269993	-0.00345000
30.	7.03709984	6.68810034	-0.04020000	0.08730000	1.28010011	-0.00800000
35.	8.86330032	7.94970036	-0.05290000	0.12360000	1.38860023	-0.01355000
40.	10.56489849	9.11899948	-0.07100000	0.14449990	1.48650002	-0.02040000
45.	12.23070049	10.25849915	-0.08280000	0.16599990	1.55159974	-0.02475000
50.	13.65999985	11.38069916	-0.09679300	0.18460000	1.58739996	-0.02920000
55.	14.98819923	12.55520153	-0.10609990	0.21079990	1.57119966	-0.03255570
60.	16.21289825	13.74810028	-0.10660000	0.23780000	1.50589991	-0.03473410
65.	17.29420090	14.89680004	-0.10674400	0.24123280	1.41281176	-0.03666600
70.	18.20026016	16.01944351	-0.10262780	0.22538880	1.30963635	-0.03752040
75.	18.94099808	16.72673798	-0.09329400	0.16369870	1.18269134	-0.03843140
80.	19.42487717	16.97255325	-0.08407270	0.14167540	1.04868531	-0.03855280
85.	19.64820480	16.83303833	-0.08043630	0.12924770	0.88887447	-0.03824130
90.	19.61505890	16.33073425	-0.08942800	0.13007690	0.69572622	-0.03818460
95.	19.39097977	15.46755695	-0.11314200	0.13382560	0.44750571	-0.03793900
100.	18.97393799	14.44117451	-0.12414200	0.14817820	0.15998220	-0.03782280
105.	18.24009323	13.13062286	-0.13498820	0.14264961	-0.19245321	-0.03315080
110.	17.33990097	11.79990005	-0.13900000	0.12899990	-0.61759990	-0.03106030
115.	16.24536896	10.69811630	-0.14359181	0.13520390	-1.10041714	-0.02969020
120.	15.09550381	9.55186272	-0.14801300	0.12345990	-1.64583600	-0.02859260
125.	13.82713127	8.42817783	-0.14833930	0.12635300	-2.14471483	-0.02752610
130.	12.30392456	7.35636234	-0.14866550	0.10282130	-2.53664255	-0.02644060
135.	10.66462898	6.22530079	-0.29690573	0.03560960	-2.88000001	-0.02372080
140.	8.94289970	5.10699987	-0.39489990	-0.03700010	-3.08020020	-0.02110000
145.	7.26358795	4.05998945	-0.34163532	0.04015680	-3.25361085	-0.01689120
150.	5.55514193	3.12381244	-0.25361121	-0.01073800	-3.36372757	-0.01316190
155.	4.03773594	2.26922274	0.03100000	-0.03629500	-3.44520532	-0.01085450
160.	2.73122454	1.28619230	0.09355200	0.05965740	-3.50974989	-0.00601040
165.	1.65648532	0.30519661	-0.02669680	-0.11581500	-3.55173659	-0.00284980
170.	0.71980911	-0.48175961	-0.10005300	-0.09928781	-3.58995390	-0.00236520
175.	0.27489671	-0.43833840	-0.04470020	0.03450110	-3.55607104	0.00012330
180.	0.04300000	0.01190000	-0.00690000	-0.00740000	-3.58060230	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 2.50
PHI= 135.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.05290000	0.16760001	-0.01990000	0.04930000	0.97369993	0.00560000
5.	0.56400001	1.36039984	-0.05770000	0.03770000	1.00619996	0.00330000
10.	1.27040005	2.82719994	-0.09209990	0.05359990	1.02810001	-0.00120000
15.	2.49959993	4.12090015	-0.11319990	-0.04620000	1.06170011	0.00020000
20.	3.90240026	5.20650053	-0.14590000	-0.09740000	1.11409974	0.00750000
25.	5.42899990	6.09259987	-0.18610001	-0.10920000	1.18139994	0.01200000
30.	7.08780003	6.99820042	-0.25669980	-0.12610000	1.28239965	0.02250000
35.	8.79700089	8.22170067	-0.37169990	-0.16590001	1.38329995	0.03690000
40.	10.55789852	9.51880074	-0.45879990	-0.20570000	1.47110021	0.05340000
45.	12.24659920	10.84799957	-0.54409993	-0.28490001	1.52609992	0.07320000
50.	13.51539898	12.00979996	-0.61269993	-0.33279991	1.54740012	0.08980000
55.	14.84350014	13.13439941	-0.67559987	-0.44059980	1.53579974	0.12760000
60.	16.09149933	14.25610065	-0.71449977	-0.58029991	1.48869991	0.14820001
65.	16.81219864	15.27660084	-0.75619990	-0.76499993	1.37469995	0.15529990
70.	17.72380257	16.05410004	-0.79509991	-0.90249991	1.28620005	0.16420001
75.	18.50619888	16.55550003	-0.81930000	-1.00469995	1.16610003	0.17499991
80.	19.05879974	16.77389908	-0.85891533	-1.10069990	1.01469994	0.18400000
85.	19.35459900	16.68840027	-0.88489991	-1.19429994	0.85020000	0.19139990
90.	19.45849991	16.23849869	-0.90779990	-1.23189986	0.66649991	0.19430001
95.	18.93519974	15.44079971	-0.93155187	-1.26950002	0.46149990	0.19599999
100.	18.41080093	14.07389927	-0.95250750	-1.24580002	0.18040000	0.19849990
105.	17.69960022	12.81819916	-0.96519262	-1.21459985	-0.19980000	0.19799989
110.	16.79899979	11.83900070	-0.96730000	-1.18289995	-0.66100001	0.19679990
115.	15.81260014	10.72209930	-0.94260001	-1.14790010	-1.16589975	0.19149990
120.	14.81130123	9.35729980	-0.89349991	-1.02789974	-1.71690023	0.16119990
125.	13.11319923	7.99230051	-0.75449991	-0.90030003	-2.23850012	0.12149990
130.	11.78680038	6.52060032	-0.61819983	-0.82779992	-2.69549990	0.09630001
135.	10.41100025	5.22650003	-0.28909987	-0.59449995	-3.03389978	0.07750000
140.	8.90530014	4.25279999	-0.00789991	-0.19769979	-3.22790003	0.05920000
145.	7.18920040	3.47939205	0.10210007	-0.17169991	-3.35090017	0.04140000
150.	5.55969954	2.78770995	0.16000000	-0.16249993	-3.42010021	0.03136000
155.	4.04119968	1.98937786	0.21020001	-0.13609999	-3.48440003	0.02277130
160.	2.74139977	1.03698075	0.23500001	-0.13389979	-3.53410006	0.01200910
165.	1.63870013	0.16985101	0.13900000	-0.33859989	-3.53090000	0.00977500
170.	0.79219991	-0.27999991	0.09310001	-0.43900001	-3.54379988	0.00540240
175.	0.38380000	-0.36890000	0.01490000	-0.32280001	-3.54750013	0.00198000
180.	0.07220000	-0.05480000	-0.01410000	0.01570000	-3.54250026	0.00005190

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 2.50
PHI= 180.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.07300000	0.01550000	-0.01670000	0.06270000	0.97409981	0.01390000
5.	0.59799993	1.19260001	0.00580000	0.05720000	1.00430012	0.00915000
10.	1.37989998	2.97259998	0.06160000	0.05650000	1.03609991	0.00380000
15.	2.55010009	4.28719997	0.19310001	0.06360000	1.07279992	0.00635000
20.	3.94190025	5.36770010	0.29009980	0.06270000	1.12109995	0.01830000
25.	5.56419945	6.38319969	0.32400000	0.06130000	1.19479990	0.02315000
30.	7.20930052	7.55749989	0.32920000	0.05830000	1.29559994	0.02620000
35.	8.91959953	8.76199913	0.34439990	-0.00050000	1.41510010	0.03301610
40.	10.54109955	10.09779835	0.38249990	-0.00329990	1.50339985	0.03699240
45.	12.07050037	11.45940018	0.43689990	-0.12140009	1.54609990	0.03702240
50.	13.47309971	12.74019909	0.47700000	-0.14199990	1.55900002	0.03704670
55.	14.87270069	14.00149918	0.52609992	-0.14835000	1.55639994	0.03555060
60.	16.07089806	15.22919941	0.57749993	-0.15470000	1.53249991	0.03535540
65.	17.04910088	16.49909973	0.62230003	-0.15310000	1.45530021	0.03714260
70.	18.01490021	17.32089996	0.65409982	-0.16405000	1.33249974	0.03838670
75.	18.73190117	17.91989899	0.67709982	-0.17500000	1.19429994	0.03954700
80.	19.27399826	18.35620117	0.69410002	-0.27270001	1.04719985	0.04130000
85.	19.51189995	18.43960190	0.69679981	-0.36309990	0.87109983	0.04195000
90.	19.52719879	18.15209961	0.68939990	-0.44180000	0.65319991	0.04398930
95.	19.43029976	17.64350128	0.68390000	-0.43430001	0.40899980	0.04600800
100.	18.79069901	16.68989944	0.62320000	-0.38589990	0.13110000	0.04853430
105.	18.08069992	15.34560013	0.56159991	-0.33629990	-0.22950000	0.05580000
110.	17.20109940	13.96930027	0.49919990	-0.28659990	-0.68680000	0.06020000
115.	16.09669876	12.59719944	0.43680000	-0.23710001	-1.17079985	0.05880000
120.	14.88280010	10.95940113	0.37019980	-0.18599990	-1.66700006	0.05730000
125.	13.63770103	9.47509956	0.34959990	-0.16740000	-2.17089987	0.05480000
130.	12.26069832	7.85550022	0.33480000	-0.12770000	-2.71980000	0.04820000
135.	10.68270016	6.38079977	0.39659980	-0.08610000	-3.09499979	0.03976240
140.	9.07429981	5.16520023	0.46359992	-0.07799990	-3.29830003	0.03110000
145.	7.40259933	4.31239986	0.46640000	-0.03450000	-3.41930008	0.02532670
150.	5.62550020	3.30990028	0.34480003	0.00900000	-3.47570014	0.02147520
155.	3.88230014	2.31027126	0.19200000	-0.00260000	-3.52150035	0.01694140
160.	2.57659984	1.26021898	-0.00300000	-0.12560001	-3.55259991	0.01102610
165.	1.54879987	0.40604970	-0.19290000	-0.17950601	-3.54220009	0.00682830
170.	0.82069987	-0.31519991	-0.21350031	-0.27279991	-3.56809998	0.00347650
175.	0.32029980	-0.40160000	-0.12080000	-0.16150001	-3.57329988	0.00141700
180.	0.09410000	-0.19299990	0.00000000	0.03400000	-3.56059980	-0.00000190

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 2.50
PHI= 225.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	-0.06080000	-0.12760000	-0.00480000	0.64929932	0.97350001	0.00980000
5.	0.37259990	1.12730002	0.00250000	0.55199993	1.01819992	0.01235000
10.	1.12549984	2.81400037	0.00950000	0.46880001	1.07100010	0.01190000
15.	2.27159977	4.12199974	0.00040000	0.53719991	1.11749995	0.01195000
20.	3.72620010	5.12790012	-0.01580000	0.58609992	1.17859995	0.01260000
25.	5.27840042	5.84650040	-0.03210000	0.61080003	1.26670003	0.01465000
30.	6.89150047	6.76870012	-0.05059820	0.64609993	1.37529981	0.01690000
35.	8.59900093	7.93509960	-0.07300000	0.67589992	1.48389995	0.01886130
40.	10.21360016	9.28370094	-0.08000000	0.71519983	1.57060003	0.02079750
45.	11.74320030	10.59679985	-0.08790000	0.73399991	1.63800001	0.02176150
50.	13.21649837	11.86569977	-0.10770000	0.71439987	1.69059992	0.02235670
55.	14.57210064	13.10300064	-0.11356630	0.69029993	1.69839990	0.02295000
60.	15.93547726	14.29859829	-0.11000820	0.65499991	1.63269985	0.02270000
65.	17.12870026	15.49999905	-0.09486000	0.50354803	1.52191210	0.02509400
70.	18.09220505	16.48821449	-0.09373640	0.38154250	1.39135480	0.02845540
75.	18.88089752	17.15425110	-0.09046420	0.30664110	1.23998380	0.03192180
80.	19.36477661	17.36060143	-0.09863290	0.29279131	1.08353853	0.03281670
85.	19.58870697	17.18721008	-0.09271180	0.27899510	0.90510923	0.03371250
90.	19.56439972	16.65327644	-0.08679080	0.26576531	0.70090753	0.03186920
95.	19.30933762	15.88944244	-0.08148400	0.24254650	0.44587371	0.03019710
100.	18.82361984	14.95403671	-0.10324090	0.26732600	0.15188830	0.02752070
105.	18.07989883	13.77489853	-0.11419330	0.28626000	-0.22824600	0.02395260
110.	17.17080688	12.63853645	-0.12514570	0.28026780	-0.71215522	0.02180000
115.	16.08159637	11.52399635	-0.13652000	0.25477600	-1.24933982	0.01839600
120.	14.96350193	10.27642059	-0.12423600	0.17359200	-1.79818761	0.01823200
125.	13.65292454	9.09494305	-0.10586060	0.07933560	-2.29116583	0.01636810
130.	12.27412033	8.04222012	-0.10487530	0.00886080	-2.68086767	0.01056360
135.	10.64761543	6.81701899	0.04610991	0.03889530	-2.98298979	0.00440760
140.	8.95590019	5.47590017	0.14709510	0.09740000	-3.19730020	0.00140000
145.	7.32452774	4.17092180	0.09808030	0.01230090	-3.34495521	-0.00211910
150.	5.68262148	3.20326400	0.05522141	0.02720190	-3.43232465	-0.00345960
155.	4.05354214	2.11130238	-0.07782350	0.03681950	-3.48941636	-0.00633260
160.	2.63363504	1.30073094	-0.04179690	-0.00072290	-3.51531219	-0.00563590
165.	1.57284510	0.25395730	0.03940000	0.08370000	-3.55054702	-0.00589200
170.	0.64181781	-0.50484753	0.27914450	0.30094129	-3.56749678	-0.00262100
175.	0.21963240	-0.44075561	0.12477790	0.10524741	-3.55612183	-0.00010000
180.	-0.00000000	-0.00690000	0.09250000	0.05560000	-3.56156731	0.00009000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 2.50
PHI= 270.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	-0.00760000	0.02620000	0.01000000	0.00870000	0.96200001	0.01120000
5.	0.48140001	1.28069985	0.02470000	0.01800000	1.02049994	0.01260000
10.	1.28010011	2.72119999	0.03810000	0.03890000	1.05999994	0.01180000
15.	2.40380001	3.80469990	0.05440000	0.05760000	1.10130000	-0.00060000
20.	3.87760019	4.77820015	0.07200000	0.04520000	1.16230011	-0.00450000
25.	5.49950027	5.63780022	0.09590000	-0.05690000	1.25599992	-0.00700000
30.	7.17290068	6.51539993	0.11260000	-0.09639990	1.36290002	-0.00970000
35.	8.89719963	7.55039978	0.12889990	-0.11780000	1.47340012	-0.01210000
40.	10.69050026	8.70240021	0.14280000	-0.13640000	1.57869995	-0.01190000
45.	12.27840042	9.82819939	0.15290000	-0.15310000	1.67020011	-0.01050000
50.	13.64430046	11.04789925	0.15130000	-0.17250000	1.71910000	-0.00920000
55.	14.97480011	12.30050087	0.15480000	-0.20230000	1.72429991	-0.00870000
60.	16.20220184	13.57440090	0.16729990	-0.24300000	1.68659985	-0.00820000
65.	17.21329880	14.68659973	0.16440000	-0.25619990	1.57480001	-0.00315000
70.	18.21400070	15.51509953	0.14170000	-0.26050001	1.43260002	0.00190000
75.	19.00899887	16.11270142	0.11910000	-0.27350000	1.27639985	0.01370000
80.	19.55199814	16.45790100	0.09639990	-0.29110000	1.10360003	0.02510000
85.	19.90650177	16.42029953	0.07370000	-0.30930001	0.91689992	0.03340000
90.	19.94269943	16.08050156	0.05620000	-0.31869990	0.72070003	0.04220000
95.	19.62390137	15.41109943	0.03100000	-0.30769980	0.49049980	0.04150000
100.	19.07139969	14.42779922	0.00580000	-0.28749990	0.22470000	0.04050000
105.	18.33470154	13.22629929	-0.03980000	-0.26220000	-0.14649990	0.03810000
110.	17.37670135	11.91239834	-0.07680000	-0.23679990	-0.55859983	0.02580000
115.	16.28960037	10.55340004	-0.12190000	-0.20350000	-1.06219995	0.01860000
120.	15.13510036	9.11079979	-0.15979990	-0.16209990	-1.63409984	0.01020000
125.	13.93929958	7.71399975	-0.14860000	-0.13259991	-2.22389984	0.00360000
130.	12.37980080	6.22399998	-0.11810000	-0.09980000	-2.69890022	0.00397510
135.	10.75690079	5.02829981	0.06210001	0.00200000	-3.07079983	0.00530000
140.	9.10160065	4.14829969	0.19599999	0.08380000	-3.26350045	0.00901280
145.	7.28129959	3.44930029	0.16650000	-0.00120000	-3.39940023	0.01413050
150.	5.54140043	2.89660025	0.13400000	0.01520000	-3.48270011	0.01495200
155.	3.99409986	2.14856291	-0.00910000	0.01790000	-3.55000019	0.01015740
160.	2.63259983	1.26157045	-0.01100000	0.01390000	-3.59560013	0.00895300
165.	1.59799993	0.24435870	-0.01220000	0.01000000	-3.60970020	0.00534270
170.	0.83609992	-0.40606460	-0.01120000	-0.04400000	-3.59779978	0.00654430
175.	0.27149990	-0.29939991	0.00910000	-0.04730000	-3.57530022	0.00258360
180.	0.04080000	-0.08050000	0.00590000	0.00530000	-3.53219986	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 2.50
PHI= 315.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	-0.03410000	-0.10140000	0.01730000	-0.02230000	0.97599977	0.01710000
5.	0.56439990	1.23679996	-0.00330000	0.04750000	0.99179977	0.03870000
10.	1.22329974	2.66260004	0.00590000	0.19939990	1.03849995	0.00960000
15.	2.45569992	3.92040014	0.01510000	0.20230000	1.08200002	0.00660000
20.	3.94589996	4.99320030	0.02430000	0.07440000	1.13739991	-0.00700000
25.	5.52040005	5.79549980	0.03360000	-0.11139990	1.21099985	-0.00820000
30.	7.12489986	6.53579998	0.04010000	-0.24089991	1.29920006	-0.01360000
35.	8.75099945	7.85350037	0.04630000	-0.32669991	1.39319992	-0.01440000
40.	10.43899918	9.05660057	0.05550000	-0.39600000	1.48500001	-0.01360000
45.	12.01810074	10.27489948	0.06060000	-0.46039990	1.56340003	-0.01520000
50.	13.48000050	11.41720009	0.05269990	-0.57050002	1.60949993	-0.01760000
55.	14.80260086	12.50839996	0.04210000	-0.61650002	1.60859990	-0.02120000
60.	15.98800087	13.68149948	0.03810000	-0.62080002	1.55439985	-0.02570000
65.	16.95389938	14.78879929	0.03460000	-0.64889991	1.46599984	-0.02810000
70.	17.93059921	15.71439934	0.01960000	-0.66270000	1.36719990	-0.02520000
75.	18.67020035	16.41600037	0.00460000	-0.71069992	1.25000000	-0.02310000
80.	19.17660141	16.75270081	-0.00840000	-0.79380000	1.10640001	-0.01890000
85.	19.49390030	16.84109879	-0.01920000	-0.83739990	0.93939990	-0.01440000
90.	19.56729889	16.57770157	-0.03010000	-0.85640001	0.74080002	-0.01450000
95.	19.38679886	16.04880142	-0.03770000	-0.82560003	0.48549980	-0.01460000
100.	18.91579819	15.23740005	-0.07400000	-0.76199991	0.20249990	-0.02000000
105.	18.16790009	14.18939972	-0.11020000	-0.68769991	-0.16929990	-0.02530000
110.	17.22510147	12.95089912	-0.14399990	-0.61150002	-0.58379990	-0.03040000
115.	16.05830002	11.74589920	-0.17440000	-0.53090000	-1.07610011	-0.03560000
120.	14.94279957	10.56780052	-0.19890000	-0.44580001	-1.59080005	-0.04070000
125.	13.72470093	8.96230030	-0.19760001	-0.36440000	-2.08699989	-0.04030000
130.	12.24559975	7.29939938	-0.17449990	-0.27630001	-2.64039993	-0.03200000
135.	10.61039925	5.98129988	-0.00129999	-0.17450000	-3.02390003	-0.02500000
140.	8.93889999	5.09339952	0.11970010	-0.06119990	-3.22450018	-0.01670000
145.	7.21059990	4.16970015	0.09030011	-0.11870000	-3.34299994	-0.00095690
150.	5.55540037	3.20549965	0.05840001	-0.08380000	-3.42649961	0.01403660
155.	3.92080021	2.34008074	-0.07879990	-0.07990000	-3.50750041	0.00941350
160.	2.57330012	1.30973625	-0.06440000	-0.07610000	-3.55110002	0.00612760
165.	1.47449982	0.25248790	-0.05690000	-0.10720000	-3.58510017	0.00361080
170.	0.66499990	-0.36182421	-0.04730000	-0.17120001	-3.58930016	0.00140000
175.	0.40899980	-0.23830000	-0.03230000	-0.17019990	-3.55880022	-0.00056740
180.	0.15300000	0.00849990	0.00900000	-0.02820000	-3.53800011	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 2.50
PHI= 360.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	-0.11530000	0.20089990	0.01830000	0.00460000	0.96920002	0.02430000
5.	0.48049992	1.55349982	0.02260000	0.01810000	0.96109992	0.02542500
10.	1.27509987	2.84140015	-0.03370000	-0.00470240	0.96370000	0.02025000
15.	2.58240008	4.18799973	-0.14690000	-0.02060380	0.97049981	0.00757500
20.	4.00590038	5.33370018	-0.22979990	-0.03229080	1.01689994	-0.00560000
25.	5.50189972	6.25580025	-0.26480001	-0.04558820	1.10130000	-0.01927500
30.	7.24940014	7.37260008	-0.24320000	-0.05607530	1.22090006	-0.03355000
35.	8.90110016	8.52709961	-0.23729990	-0.06219630	1.35409975	-0.05582500
40.	10.67490005	9.81850052	-0.26019990	-0.07216710	1.45429981	-0.06750000
45.	12.33540058	11.21789932	-0.31970000	-0.08059670	1.49720001	-0.08107500
50.	13.76570034	12.48019981	-0.37410000	-0.09431790	1.51779985	-0.09075000
55.	15.14470100	13.74060059	-0.40630001	-0.10600540	1.50889993	-0.09922490
60.	16.31049919	15.03370094	-0.41909990	-0.12781911	1.48159993	-0.10520000
65.	17.32232475	16.38526535	-0.44682401	-0.17283620	1.39361691	-0.11057500
70.	18.35067368	17.38975525	-0.46969521	-0.26328811	1.28572822	-0.11517040
75.	19.09099770	18.10601807	-0.48612401	-0.31695580	1.17965412	-0.11447270
80.	19.56673813	18.34431648	-0.48812151	-0.35389560	1.04502892	-0.10159720
85.	19.80399947	18.23484039	-0.49008250	-0.37426311	0.88582063	-0.09770200
90.	19.77227020	17.78571320	-0.48682860	-0.38622740	0.68611783	-0.09613901
95.	19.52855873	17.00899887	-0.47982740	-0.38302371	0.45369670	-0.09508000
100.	18.99305725	16.05387497	-0.47198510	-0.38410020	0.15710010	-0.09718639
105.	18.21932983	14.62109947	-0.46187520	-0.38429990	-0.18568550	-0.11118060
110.	17.27999878	13.25000000	-0.44929990	-0.37466401	-0.61229992	-0.11029990
115.	16.22011185	12.07356167	-0.43379891	-0.35104001	-1.13090372	-0.10916470
120.	14.87509918	10.84640026	-0.41034001	-0.32911590	-1.64250755	-0.10637639
125.	13.69978333	9.70222092	-0.39619660	-0.29802090	-2.12598515	-0.10219130
130.	12.29448414	8.45368671	-0.37838191	-0.29109350	-2.50652385	-0.09195360
135.	10.68356323	7.02374792	-0.44997600	-0.28085160	-2.81498170	-0.08075900
140.	9.04149914	5.57399940	-0.46089992	-0.18650000	-3.04650021	-0.06860000
145.	7.56626606	4.31506062	-0.49139020	-0.18671140	-3.23491430	-0.05693330
150.	5.92538786	3.20071554	-0.48117992	-0.26450861	-3.34767532	-0.04384540
155.	4.05011940	2.14870501	-0.46984461	-0.35185999	-3.42501640	-0.03265170
160.	2.72379994	1.22694337	-0.29147300	-0.33423480	-3.45498395	-0.02089080
165.	1.69432127	0.39310110	0.07888170	0.14420591	-3.46625590	-0.00888430
170.	0.83543772	-0.25254300	0.23788811	0.39167562	-3.51325035	-0.00280620
175.	0.30155960	-0.37572470	0.09680000	0.12851191	-3.48726583	-0.00010390
180.	0.04690000	0.01390000	0.03500000	0.01300000	-3.51411247	0.00020000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 3.00
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	-0.00310000	0.20089990	0.01830000	0.00460000	0.96920002	0.02430000
5.	0.46259981	1.47869992	0.03070000	0.01810000	0.96109992	0.02537500
10.	1.20700002	2.69770002	-0.02680000	-0.04840000	0.96370000	0.02015000
15.	2.46420026	3.97539997	-0.13699991	-0.07250000	0.97049981	0.00742500
20.	3.83760023	5.05220079	-0.21680000	-0.08720000	1.01689994	-0.00580000
25.	5.28349972	5.90540075	-0.24890000	-0.10680000	1.10130000	-0.01952500
30.	6.98000015	6.95330048	-0.22430000	-0.12630001	1.22090006	-0.03385000
35.	8.58239937	8.03899956	-0.21540000	-0.14260000	1.35409975	-0.04657500
40.	10.30610085	9.26149940	-0.23530000	-0.15889990	1.45429981	-0.05590000
45.	11.91639900	10.59199905	-0.29179990	-0.17260000	1.49720001	-0.06702500
50.	13.29660130	11.78540039	-0.34320000	-0.18410000	1.51779985	-0.07425000
55.	14.62550060	12.97690010	-0.37239990	-0.18820000	1.50889993	-0.08027500
60.	15.74119949	14.20189844	-0.38220000	-0.19944330	1.48159993	-0.08668111
65.	16.81039619	15.48574162	-0.39094990	-0.20969620	1.37972510	-0.09308720
70.	17.76319885	16.59229660	-0.40388000	-0.22331990	1.24773586	-0.09707000
75.	18.47780037	17.34030533	-0.41271201	-0.25391191	1.14234805	-0.09296300
80.	18.97890091	17.68919754	-0.39822000	-0.30194801	1.01198006	-0.08891200
85.	19.24999809	17.64705658	-0.40189990	-0.33884421	0.86748910	-0.08981010
90.	19.24029922	17.23529816	-0.40189990	-0.36189660	0.70013511	-0.09155000
95.	19.00061226	16.77010155	-0.40054020	-0.37980270	0.50849992	-0.08887240
100.	18.54582214	16.04570007	-0.39985600	-0.38988110	0.24142750	-0.08865720
105.	17.82761765	14.46614265	-0.39785600	-0.38448110	-0.06668320	-0.08969120
110.	16.90667343	13.11359978	-0.40330631	-0.36785820	-0.48074991	-0.08760500
115.	15.77214050	11.84658909	-0.41119990	-0.31847340	-0.94340563	-0.08371460
120.	14.57439899	10.71230507	-0.37437990	-0.27910000	-1.43892384	-0.07580070
125.	13.37834740	9.57129669	-0.33641690	-0.23385990	-1.90102673	-0.06790000
130.	11.93700027	8.20433235	-0.30023220	-0.18437690	-2.33920002	-0.05847900
135.	10.38277435	6.89673090	-0.33404541	-0.16954070	-2.72300005	-0.05321690
140.	8.74473858	5.68666172	-0.45290431	-0.15726630	-2.96280003	-0.04617170
145.	7.21490049	4.66089964	-0.40290001	-0.24190001	-3.17153597	-0.03774260
150.	5.44890022	3.56489992	-0.38300002	-0.17500001	-3.29408789	-0.03008990
155.	3.66303420	2.70116663	-0.41499999	-0.18599990	-3.38441706	-0.02235520
160.	2.28928614	1.74689984	-0.13999990	-0.21699990	-3.45992327	-0.01477760
165.	1.44708204	0.63421762	0.03772680	-0.00037160	-3.51255870	-0.00830480
170.	0.65727413	-0.00894100	0.18273641	0.00333680	-3.55205297	-0.00280620
175.	0.22327250	-0.26587200	0.09680000	0.04212770	-3.56950712	-0.00060390
180.	-0.00341120	-0.01220000	0.02910000	-0.02212990	-3.58321142	0.00007090

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 3.00
PHI= 4°.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.03700000	0.09740000	0.00520000	-0.03670000	0.97259992	0.00230000
5.	0.43879980	1.08290005	0.02960000	-0.09920000	0.98930001	0.00330000
10.	1.19490004	2.57070041	0.08790000	-0.16299990	1.02449965	0.00160000
15.	2.39020014	3.93860006	0.12560000	-0.09970000	1.05769992	0.00110000
20.	3.77040005	4.96510029	0.13200000	-0.01480000	1.09559965	-0.00320000
25.	5.23260021	5.82359982	0.13349991	0.02490000	1.16079974	-0.02110000
30.	6.82569981	6.75100040	0.17060000	-0.03470000	1.22319984	-0.03100000
35.	8.40130043	7.91749954	0.30500001	-0.03230000	1.31390011	-0.04710000
40.	10.06019974	9.11370087	0.37439990	0.06270000	1.39119995	-0.05960000
45.	11.54290009	10.26129913	0.44639990	0.17749991	1.45599985	-0.07370000
50.	12.94520092	11.38080025	0.51179987	0.26789990	1.51020002	-0.12519990
55.	14.18379974	12.48539925	0.58770001	0.37580001	1.50350010	-0.15360001
60.	15.43029976	13.58869934	0.64687550	0.46969980	1.44909990	-0.16906801
65.	16.58512878	14.97775173	0.71063411	0.54573423	1.36806536	-0.18106930
70.	17.54109573	16.10749817	0.75546390	0.61499572	1.27152395	-0.18868791
75.	18.31309891	16.78189850	0.81787992	0.68978381	1.16640782	-0.19238800
80.	18.87989807	17.06270218	0.84027582	0.76239580	1.04336405	-0.19588800
85.	19.12218094	16.87086487	0.87020332	0.84499991	0.90127993	-0.19465460
90.	19.14479065	16.36429596	0.85278660	0.87249982	0.73409992	-0.19515210
95.	18.92119598	15.55999947	0.84577990	0.91107982	0.54008412	-0.19244431
100.	18.44288254	14.51960087	0.83293992	0.94938791	0.27234000	-0.18576801
105.	17.75987625	13.28130054	0.81006831	1.00978756	-0.06949400	-0.18700761
110.	16.84657669	12.04447937	0.76916391	1.02469206	-0.51662970	-0.18269990
115.	15.72488594	10.89193630	0.73456210	0.99087000	-1.01998043	-0.17063820
120.	14.60320091	9.82231140	0.65821791	0.92476022	-1.53303003	-0.15614921
125.	13.34470558	8.71090984	0.59728742	0.84260672	-2.03159094	-0.13340181
130.	11.81675053	7.59332180	0.53656012	0.76840723	-2.47010756	-0.11990200
135.	10.48090076	6.54990196	0.36259851	0.49185911	-2.80042553	-0.09714290
140.	8.71585083	5.48634291	0.10971960	0.23836452	-3.01640010	-0.08002600
145.	7.01893616	4.42081404	-0.07506779	0.16842720	-3.18559599	-0.07308910
150.	5.23834419	3.46964669	-0.09761038	0.11859629	-3.27195621	-0.04348180
155.	3.73303556	2.50979996	-0.01975620	0.08054480	-3.35522079	-0.03406490
160.	2.48689985	1.45732212	-0.03799020	0.13590001	-3.41074181	-0.02219480
165.	1.45317173	0.51899421	0.04803120	0.21325430	-3.48014569	-0.01366110
170.	0.52728301	-0.35679850	0.06343590	0.28851870	-3.54518032	-0.00698190
175.	0.17076001	-0.38220820	0.08045700	0.21755621	-3.56354618	-0.00170550
180.	-0.03970360	-0.08322430	0.06034800	-0.00700000	-3.58289981	-0.00032150

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 3.00
PHI= 90.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.03380000	0.12050000	-0.01370000	0.01690000	0.96649992	0.01560000
5.	0.46200001	1.20569992	0.00840000	-0.00110000	0.97880000	0.01325000
10.	1.13210011	2.64930010	0.01770000	-0.00740000	0.99710000	0.01090000
15.	2.25099993	3.81860018	0.01110000	-0.05089990	1.03779995	0.00855000
20.	3.65329981	4.85239983	0.00210000	-0.02590000	1.08499992	0.00540000
25.	5.13000011	5.62709999	-0.01410000	0.02930000	1.14949965	0.00075000
30.	6.78219986	6.53789997	-0.02530000	0.07560000	1.25379992	-0.00290000
35.	8.57180023	7.77960014	-0.03590000	0.11000000	1.35940003	-0.00745000
40.	10.23660088	8.92900085	-0.05180000	0.12899990	1.45429981	-0.01340000
45.	11.86569977	10.04850006	-0.06140000	0.14850000	1.51640010	-0.01685000
50.	13.25840092	11.15089989	-0.06700000	0.16520000	1.54920006	-0.02030000
55.	14.54980087	12.30550003	-0.08030000	0.18939990	1.52999985	-0.02220000
60.	15.73780060	13.47839832	-0.07860000	0.21450000	1.50241184	-0.02410000
65.	16.72245407	14.33322430	-0.08834130	0.20975851	1.41059923	-0.02420510
70.	17.71879578	15.46839905	-0.09986400	0.19507980	1.29493976	-0.02420000
75.	18.43039703	16.16360092	-0.07500000	0.19700000	1.16349602	-0.02443000
80.	18.93185806	16.48754501	-0.07560940	0.1959 40	1.03292704	-0.02450620
85.	19.21206284	16.40657043	-0.09023720	0.16976750	0.88912582	-0.02261330
90.	19.21987534	16.01448441	-0.09567740	0.13376100	0.72181612	-0.02107110
95.	19.00790024	15.33640003	-0.10066000	0.12297990	0.52320391	-0.02118600
100.	18.59429932	14.37350845	-0.09060000	0.13154790	0.24642350	-0.01754000
105.	17.91090012	13.12430763	-0.08122390	0.12506171	-0.07760000	-0.00983890
110.	16.99570656	11.78306389	-0.08139720	0.09067740	-0.49039990	-0.00596600
115.	15.86222076	10.59360123	-0.07690000	0.08785990	-0.96872592	-0.01669750
120.	14.61557961	9.42906284	-0.07723060	0.11859770	-1.47560000	-0.02128060
125.	13.39629841	8.27719307	-0.08270000	0.15838620	-2.02975464	-0.02216560
130.	11.93154144	7.22374153	-0.08195000	0.16497600	-2.50159979	-0.01697250
135.	10.30027390	6.19492579	-0.28157741	0.04254720	-2.78404140	-0.01632340
140.	8.61232376	5.18978739	-0.39532742	0.01245449	-3.05062389	-0.01569500
145.	6.89929771	4.20766973	-0.35464799	-0.02297140	-3.19610381	-0.01450300
150.	5.32240295	3.43985319	-0.22271231	-0.12418231	-3.28526640	-0.01216190
155.	3.78730011	2.66474509	-0.02741020	-0.09629941	-3.35185599	-0.00935450
160.	2.40974236	1.51380181	0.07190000	0.06500000	-3.41870022	-0.00451040
165.	1.37148285	0.43542850	0.05806120	0.08250000	-3.47131586	-0.00134980
170.	0.56443191	-0.30260000	-0.08395440	-0.33150110	-3.52694416	-0.00186520
175.	0.15454850	-0.40539980	0.03682380	0.01731090	-3.56144905	0.00062330
180.	-0.05454320	-0.10274820	0.06299990	0.02980040	-3.58782482	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SPB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 3.00
PHI= 135.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	-0.03060000	0.16760001	-0.01990000	0.04930000	0.97369993	0.00560000
5.	0.44180000	1.27110004	-0.05760000	0.02950000	1.00619996	0.00360000
10.	1.11059976	2.65810013	-0.09240000	0.03700000	1.04149985	-0.00140000
15.	2.30109978	3.87209988	-0.11399990	-0.07120000	1.08130002	-0.00010000
20.	3.66620040	4.87790012	-0.14719990	-0.13090000	1.14000010	0.00710000
25.	5.15520000	5.68430090	-0.18779990	-0.15930000	1.21350002	0.02070000
30.	6.77530003	6.51010036	-0.25989991	-0.18619990	1.32079995	0.03250000
35.	8.44680023	7.65380049	-0.37639990	-0.21529990	1.42799985	0.04910000
40.	10.17009926	8.87120056	-0.46399990	-0.28590000	1.52199996	0.06690000
45.	11.82010078	10.12059975	-0.54979992	-0.37519991	1.58330011	0.08020000
50.	13.05120182	11.20269966	-0.61889982	-0.43320000	1.61000003	0.09700000
55.	14.34160042	12.24749947	-0.68320000	-0.55100000	1.60549974	0.13509990
60.	15.42639923	13.44519997	-0.73856342	-0.68120003	1.60099995	0.15750000
65.	16.48789978	14.40959835	-0.76740003	-0.84389991	1.49210012	0.17050001
70.	17.36479759	15.24679947	-0.80320001	-0.94000000	1.38269985	0.17880000
75.	18.11249924	15.80780029	-0.82639992	-1.00090003	1.24160004	0.18919991
80.	18.63050079	16.08570099	-0.84850001	-1.05550003	1.06919992	0.19859990
85.	18.89160156	16.05989838	-0.85459977	-1.10770011	0.88380003	0.20539990
90.	18.92200089	15.68530083	-0.85930002	-1.15730000	0.67909992	0.20940001
95.	18.65969658	14.97440052	-0.86720002	-1.13249993	0.43869990	0.21140000
100.	18.14310074	13.62150002	-0.87899983	-1.12059975	0.15809990	0.21269999
105.	17.43970108	12.37980175	-0.88069981	-1.10120010	-0.20930000	0.21179999
110.	16.54710007	11.41460037	-0.87790000	-1.08119965	-0.65769982	0.21020000
115.	15.51849842	10.31170082	-0.83420002	-1.05799985	-1.14969993	0.20449990
120.	14.51029968	8.90019989	-0.76619983	-0.99820000	-1.68719995	0.17450000
125.	13.17569923	7.61740017	-0.66509992	-0.87609982	-2.19659996	0.13469990
130.	11.83650017	6.23159981	-0.56500000	-0.80859983	-2.64130020	0.10970000
135.	10.44790077	5.07349968	-0.42149982	-0.57920003	-2.96630001	0.09720001
140.	8.92939949	4.28579998	-0.22139990	-0.33759981	-3.14749980	0.07340001
145.	7.20049953	3.76679993	-0.02160001	-0.26659989	-3.25769997	0.04030000
150.	5.50820065	3.13609982	0.06950009	-0.23979992	-3.31389999	0.03251350
155.	4.00650024	2.55530024	0.08939999	-0.20899990	-3.36539984	0.02337040
160.	2.71390033	1.54139996	0.12930000	-0.25189981	-3.40590000	0.01609400
165.	1.61840010	0.54949993	-0.00160000	-0.35260001	-3.45760012	0.01178620
170.	0.77909982	-0.28079990	-0.07470000	-0.39820001	-3.49800014	0.00640240
175.	0.37790000	-0.36839980	-0.04470000	-0.22700001	-3.52909994	0.00240000
180.	0.07220000	-0.05480000	-0.01410000	0.01490000	-3.55159998	0.00005190

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 3.00
PHI= 180.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.07960000	0.11420000	-0.01670000	0.06270000	0.97409981	0.01390000
5.	0.56799978	1.23029995	-0.00110000	0.05720000	1.00430012	0.00917500
10.	1.31389987	2.94640040	0.04930000	0.05650000	1.03609991	0.00385000
15.	2.44809985	4.20750046	0.17530000	0.05100000	1.07279992	0.00702500
20.	3.80229998	5.22879982	0.26679990	0.04520000	1.12140012	0.01070000
25.	5.30999939	6.18500042	0.29519990	0.03880000	1.19509995	0.02417500
30.	6.99910021	7.30119991	0.29499990	0.03090000	1.29600000	0.02695000
35.	8.67239952	8.44650078	0.30479991	-0.03290000	1.41549993	0.04182500
40.	10.25790024	9.72299957	0.33730000	-0.12060000	1.50329995	0.04970000
45.	11.75119972	11.02650070	0.38630000	-0.16370000	1.54609990	0.05337500
50.	13.11769962	12.24799919	0.42089990	-0.18020000	1.55890000	0.05155000
55.	14.48129940	13.45009995	0.46460000	-0.20055000	1.55619991	0.05232500
60.	15.64350033	14.56899929	0.50730002	-0.21190000	1.53230000	0.05370000
65.	16.70280266	15.69569969	0.54540002	-0.22090000	1.47340012	0.05347500
70.	17.66699982	16.53480148	0.59050000	-0.21560000	1.34900010	0.05315000
75.	18.38129997	17.15100098	0.62679982	-0.11810000	1.20830011	0.05392500
80.	18.92070007	17.60469818	0.65703990	-0.15349990	1.05869985	0.05480000
85.	19.15590096	17.70539856	0.67309982	-0.18160000	0.88059992	0.05597501
90.	19.16859818	17.55929947	0.68649977	-0.19800000	0.66030002	0.05905000
95.	19.08310127	17.13170052	0.68900001	-0.18920000	0.40590000	0.06172490
100.	18.44339752	16.20410156	0.65279990	-0.18059990	0.10699990	0.06410000
105.	17.73339844	14.83600044	0.61580002	-0.17089990	-0.23639990	0.06770001
110.	16.85369873	13.48570156	0.57799977	-0.16090000	-0.67850000	0.07080000
115.	15.74919987	12.18960190	0.54020000	-0.15120000	-1.14720011	0.06810001
120.	14.34520054	10.83220100	0.49439991	-0.13999990	-1.62020005	0.06530000
125.	13.28469944	9.34510040	0.47090000	-0.12260000	-2.11679983	0.05910000
130.	11.97909927	7.69610023	0.43390000	-0.10510000	-2.65710020	0.05169990
135.	10.47029819	6.24189997	0.42030002	-0.08580000	-3.00559998	0.03170000
140.	8.94659901	5.14690018	0.51030000	-0.09990000	-3.19850039	0.02680000
145.	7.34679985	4.36459970	0.43889999	-0.02289990	-3.36099958	0.01490000
150.	5.62370014	3.48269987	0.36679992	0.04250000	-3.45222855	0.01360000
155.	3.90900016	2.63060069	0.22029990	-0.01650000	-3.51581240	0.01164390
160.	2.54419994	1.61649990	0.01990000	-0.02640000	-3.52862549	0.00807990
165.	1.60610008	0.56899993	-0.02530000	-0.16720000	-3.52471900	0.00548790
170.	0.81809993	-0.12369990	-0.20130001	-0.14739990	-3.55518174	0.00244190
175.	0.31140000	-0.37900001	-0.10790000	-0.12300000	-3.54960036	0.00068190
180.	0.07380000	-0.14179990	0.00000000	0.03400000	-3.57200016	-0.00007200

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 3.00
PHI= 225.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	-0.06080000	-0.10240000	-0.00480000	0.00820000	0.97350001	0.00900000
5.	0.37259990	0.93529981	0.01630000	-0.03550000	1.00419974	0.01285000
10.	1.12549984	2.40460014	0.02040000	-0.06510000	1.04299974	0.01290000
15.	2.27159977	3.49529982	0.01620000	0.05690000	1.07550001	0.01345000
20.	3.72620010	4.28390026	0.00490000	0.15939990	1.12259996	0.01460000
25.	5.27840042	4.78520012	-0.00640000	0.23760000	1.19670010	0.01715000
30.	6.89150047	5.49009991	-0.02470530	0.32650000	1.29130006	0.02460000
35.	8.59900093	6.43920088	-0.03730000	0.41920000	1.38589990	0.02875000
40.	10.21360016	7.57050037	-0.03950000	0.51339990	1.45860004	0.03230000
45.	11.74320030	8.66620064	-0.04240000	0.58719993	1.51199985	0.03475000
50.	13.21649837	9.71780014	-0.05720000	0.62249982	1.55060005	0.03630000
55.	14.57210064	10.73789978	-0.06450000	0.65339983	1.54439986	0.03735000
60.	15.82020092	11.92630005	-0.05810000	0.67100000	1.49600005	0.03840000
65.	16.73020172	13.08249950	-0.05370000	0.67069978	1.37239993	0.03935000
70.	17.67549896	14.09910011	-0.04950000	0.66811472	1.27160001	0.04010000
75.	18.39919853	14.96179962	-0.04520000	0.65079981	1.13590002	0.04065000
80.	18.90310097	15.52440071	-0.03380000	0.63573313	0.97780001	0.04110000
85.	19.17380333	15.74640083	-0.01780000	0.60374552	0.79689991	0.04125000
90.	19.27320099	15.65069962	-0.00180000	0.57586000	0.59019983	0.03980000
95.	19.01369858	15.24959946	-0.00780000	0.54729992	0.35089990	0.03835000
100.	18.51140022	14.57600021	-0.01630000	0.51440001	0.20870000	0.03760000
105.	17.80799866	13.58650017	-0.01510000	0.46633780	-0.17699990	0.03310000
110.	16.90369797	12.48959923	-0.01650000	0.41740000	-0.60920000	0.02760000
115.	15.81319904	11.18959999	-0.02000000	0.29859990	-1.13089991	0.02230000
120.	14.59999943	9.86999989	-0.02121470	0.14520000	-1.64249992	0.01720000
125.	13.39780045	8.52027893	-0.02182080	0.08260000	-2.13030005	0.01465160
130.	11.98560047	7.42869949	-0.02233330	0.04950000	-2.63089991	0.01270790
135.	10.43780136	6.24939966	0.17916670	0.12530001	-2.98239970	0.00905860
140.	8.83330059	5.14660025	0.27968961	0.10865160	-3.18559980	0.00860000
145.	7.15264130	4.14386892	0.22891431	0.10363990	-3.23966026	0.00656870
150.	5.52526236	3.40823412	0.13123201	0.16377200	-3.28740788	0.00454040
155.	4.03935957	2.59859157	0.05138650	0.13820830	-3.31769300	0.00207550
160.	2.63077990	1.51740003	-0.03761540	-0.02090000	-3.36069369	-0.00013590
165.	1.54676080	0.44599980	0.03940000	0.00370000	-3.40628004	-0.00289200
170.	0.79303712	-0.24405840	0.16551851	0.19556570	-3.45920634	-0.00111770
175.	0.28740570	-0.33953980	0.05074420	0.05941650	-3.54997349	-0.00010000
180.	0.06266590	0.00522770	0.02646400	-0.01999550	-3.56282091	0.00016100

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 3.00
PHI= 270.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.03100000	0.00360000	0.01000000	0.00870000	0.97420001	0.01120000
5.	0.48140001	1.20689964	0.01660000	0.01000000	1.02860010	0.01260000
10.	1.23979986	2.59100032	0.02440000	0.03020000	1.05999994	0.01180000
15.	2.32410002	3.62850022	0.03510000	0.05450000	1.10130000	0.00980000
20.	3.75899982	4.55080032	0.04710000	0.04200000	1.16230011	0.00920000
25.	5.34109974	5.35910034	0.06540000	-0.06030000	1.24729991	0.01010000
30.	6.97560024	6.18550014	0.07640000	-0.09990000	1.34999990	0.01080000
35.	8.66010094	7.16930056	0.08710000	-0.12160000	1.45630002	0.01170000
40.	10.41360092	8.27000046	0.09540000	-0.14030001	1.55739975	0.01530000
45.	11.96159840	9.34469986	0.09990000	-0.15719990	1.64470005	0.02010000
50.	13.28079929	10.51309967	0.09270000	-0.17670000	1.68949986	0.02470000
55.	14.57939911	11.71450043	0.09060000	-0.20670000	1.69049990	0.02860000
60.	15.83109951	12.77950001	0.09740000	-0.24759990	1.64860010	0.03250000
65.	16.91979980	13.87549973	0.09150009	-0.29069990	1.53940010	0.03570000
70.	17.86819839	14.75110054	0.08920000	-0.29049990	1.40529990	0.03840000
75.	18.60950089	15.39600086	0.08690000	-0.31269991	1.25880003	0.04110000
80.	19.09980011	15.78830051	0.08450000	-0.33260000	1.10319996	0.04350000
85.	19.40110016	15.79789925	0.08220000	-0.35310000	0.92999983	0.04280000
90.	19.38310051	15.54489994	0.08499990	-0.36489990	0.74730003	0.04220000
95.	19.17250252	14.96970081	0.04550000	-0.36359990	0.51599991	0.04150000
100.	18.64110184	13.98410034	-0.00170000	-0.35499990	0.22860000	0.04050000
105.	17.91770172	12.78030014	-0.04900000	-0.34109980	-0.15079990	0.03810000
110.	16.97589874	11.46409988	-0.09440000	-0.32709980	-0.54820001	0.03570000
115.	15.90609837	10.10280037	-0.13450000	-0.30530000	-1.03699994	0.03100000
120.	14.71719933	8.70790005	-0.17420000	-0.28240001	-1.59920013	0.02446150
125.	13.65060043	7.18259954	-0.07449990	-0.25089991	-2.16260004	0.01830000
130.	12.14310074	5.77979946	-0.05430000	-0.21630000	-2.62940001	0.01110000
135.	10.57220173	4.77139997	0.16550000	-0.06280000	-2.98659992	0.01207820
140.	8.96890068	3.97870016	0.28910002	-0.02930000	-3.16450024	0.01346240
145.	7.20049953	3.41700029	0.24920000	-0.01250000	-3.28560019	0.01486870
150.	5.27919960	3.05429983	0.15640001	0.05560000	-3.35419989	0.01545200
155.	4.01480055	2.62559986	0.06320000	0.07170001	-3.40670013	0.01103900
160.	2.61619997	1.64629996	0.00670000	-0.06389990	-3.43750000	0.00845300
165.	1.59439993	0.69639993	0.00090000	-0.04950000	-3.49270010	0.00660520
170.	0.84529990	-0.11409990	0.00420000	-0.03520000	-3.54250026	0.00556840
175.	0.29359990	-0.26190001	0.00910000	-0.02020000	-3.58160019	0.00258360
180.	0.07050000	-0.03560000	0.00590000	0.00530000	-3.60020018	-0.00001220

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 3.00
PHI= 315.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	-0.03410000	-0.10140000	0.01730000	-0.02230000	0.97679991	0.01710000
5.	0.53460002	1.12709975	-0.01670000	0.03950000	0.99259990	0.00870000
10.	1.16619992	2.36460018	-0.01980000	0.18430001	1.03929985	0.00960000
15.	2.38009977	3.43400002	-0.02290000	0.19029990	1.08279991	0.00660000
20.	3.84590006	4.31849957	-0.02600000	0.05880000	1.13820004	0.00300000
25.	5.39590025	4.93229961	-0.02910000	-0.13060001	1.21180010	0.00420000
30.	6.97600031	5.48429966	-0.03490000	-0.26370001	1.29999995	0.00120000
35.	8.57700075	6.61369991	-0.03200000	-0.35299990	1.39480005	0.00200000
40.	10.24130154	7.62839985	-0.03390000	-0.42589980	1.48580003	0.00600000
45.	11.79599953	8.65830040	-0.03980000	-0.49390000	1.56419992	0.00680000
50.	13.23350048	9.61219978	-0.05870000	-0.60749990	1.61029994	0.00680000
55.	14.53170013	10.51509953	-0.08030000	-0.65709990	1.60940003	0.00560000
60.	15.69269943	11.49979973	-0.09550000	-0.66499990	1.56800020	0.00350000
65.	16.68780136	12.71869946	-0.10959990	-0.69120002	1.48300004	0.00160000
70.	17.61859894	13.89209938	-0.11710000	-0.66270000	1.38839996	-0.00030000
75.	18.31219864	14.84149837	-0.12450000	-0.64150000	1.27539992	-0.00300000
80.	18.77259827	15.42589951	-0.13000000	-0.66880000	1.13599992	-0.00370000
85.	19.03829956	15.76209927	-0.13319990	-0.65670002	0.97319990	-0.00400000
90.	19.14370155	15.74650002	-0.13659990	-0.61989993	0.77880001	-0.00440850
95.	18.95539856	15.36570072	-0.15619990	-0.59249991	0.54759991	-0.00460000
100.	18.53509903	14.58160019	-0.16170000	-0.56509990	0.25209990	-0.00500000
105.	17.83810043	13.56080151	-0.17219990	-0.52699977	-0.11890000	-0.00540000
110.	16.94609833	12.34960079	-0.18259990	-0.48699990	-0.52569991	-0.00550000
115.	15.83010006	11.17180061	-0.18489990	-0.44270000	-1.01020002	-0.00570000
120.	14.71539974	10.07089901	-0.18380000	-0.39370000	-1.51679993	-0.00590000
125.	13.42979908	8.61409950	-0.15849990	-0.33050001	-2.00559998	-0.00306300
130.	11.98819923	7.08990002	-0.12549990	-0.24470000	-2.55119991	-0.00051300
135.	10.39049911	6.01040030	0.10760000	-0.09540000	-2.92700005	0.00310000
140.	8.75930023	5.26119947	0.23860002	-0.03439999	-3.11980009	0.00700000
145.	7.06579971	4.52619982	0.21680000	0.00580000	-3.23050022	0.01050590
150.	5.59280062	4.07010031	0.14700000	0.00840001	-3.30720019	0.01403660
155.	4.02959967	3.28790021	0.05860000	0.00850001	-3.41289997	0.00941350
160.	2.61980009	2.07730007	0.00600000	-0.05200000	-3.48120046	0.00612100
165.	1.50879991	0.92859977	-0.00350000	-0.08740000	-3.53140020	0.00434650
170.	0.68709987	0.10430000	-0.01820000	-0.10560000	-3.56379986	0.00270410
175.	0.29940990	-0.13339990	-0.01680000	-0.10600000	-3.56150007	0.00084080
180.	0.15059990	0.10079990	0.00900000	-0.02820000	-3.56890035	0.00004600

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 3.00
PHI= 360.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	-0.08310000	0.20089990	0.01830000	0.00460000	0.96920002	0.02430000
5.	0.46259981	1.47869992	0.03070000	0.01810000	0.96109992	0.02537500
10.	1.20700002	2.69770002	-0.02680000	-0.04840000	0.96370000	0.02015000
15.	2.46420026	3.97539997	-0.13699991	-0.07250000	0.97049981	0.00742500
20.	3.83760023	5.05220079	-0.21680000	-0.08720000	1.01689994	-0.00580000
25.	5.28349972	5.90540075	-0.24890000	-0.10680000	1.10130000	-0.01952500
30.	6.98080015	6.95330048	-0.22430000	-0.12630001	1.22090006	-0.03385000
35.	8.58239937	8.03899956	-0.21540000	-0.14260000	1.35409975	-0.04657500
40.	10.30610085	9.26149940	-0.23530000	-0.15889990	1.45429981	-0.05590000
45.	11.91639900	10.59199905	-0.29179990	-0.17260000	1.49720001	-0.06702500
50.	13.29660130	11.78540039	-0.34320000	-0.18410000	1.51779985	-0.07425000
55.	14.62550068	12.97690010	-0.37239990	-0.18820000	1.50889993	-0.08027500
60.	15.74119949	14.20109844	-0.38220000	-0.19944330	1.48159993	-0.08668111
65.	16.81039619	15.48574162	-0.39094990	-0.20969620	1.37972518	-0.09308720
70.	17.76319885	16.59229660	-0.40388000	-0.22331990	1.24773586	-0.09707000
75.	18.47780037	17.34030533	-0.41271201	-0.25391191	1.14234805	-0.09296300
80.	18.97890091	17.68919754	-0.39822000	-0.30194801	1.01198006	-0.08891200
85.	19.24999809	17.64705658	-0.40189990	-0.33884421	0.86748910	-0.08981010
90.	19.24029922	17.23529816	-0.40189990	-0.36189660	0.70013511	-0.09155000
95.	19.00061226	16.77010155	-0.40054020	-0.37980270	0.50849992	-0.08887240
100.	18.54582214	16.04570007	-0.39985600	-0.38988110	0.24142750	-0.08865720
105.	17.82761765	14.46614265	-0.39785600	-0.38448110	-0.06668320	-0.08969120
110.	16.90667343	13.11359978	-0.40330631	-0.36785820	-0.48074991	-0.08760500
115.	15.77214050	11.84658909	-0.41119990	-0.31847340	-0.94340563	-0.08371460
120.	14.57439899	10.71230507	-0.37437990	-0.27910000	-1.43892384	-0.07588070
125.	13.37834740	9.57129669	-0.33641690	-0.23385990	-1.90102673	-0.06790000
130.	11.93700027	8.20433235	-0.30023220	-0.18437690	-2.33920002	-0.05847900
135.	10.38277435	6.89673090	-0.33404541	-0.16954070	-2.72300005	-0.05321690
140.	8.74473858	5.68666172	-0.45290431	-0.15726630	-2.96280003	-0.04617170
145.	7.21490049	4.66089964	-0.40290001	-0.24190001	-3.17153597	-0.03774260
150.	5.44890022	3.56489992	-0.38300002	-0.17500001	-3.29408789	-0.03008990
155.	3.66303420	2.70116663	-0.41499999	-0.18599990	-3.38441706	-0.02235520
160.	2.28928614	1.74689984	-0.13999990	-0.21699990	-3.45992327	-0.01477760
165.	1.44708204	0.63421762	0.03772680	-0.00037160	-3.51255870	-0.00830480
170.	0.65727413	-0.08894100	0.10273641	0.00333680	-3.55205297	-0.00280620
175.	0.22327250	-0.26587200	0.09680000	0.04212770	-3.56950712	-0.00060390
180.	-0.00341120	-0.01220000	0.02910000	-0.02212990	-3.58321142	0.00007090

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 3.48
PHI= 0.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	-0.02530000	-0.05850000	0.02150000	-0.02180000	0.78789991	0.00160000
5.	0.54330003	1.11269975	-0.00690000	-0.02350000	0.80830002	-0.00425000
10.	1.29100013	2.24480009	-0.02340000	0.01060000	0.85259992	-0.00520000
15.	2.30139995	2.94850016	-0.09299990	0.01360000	0.93509990	-0.00625000
20.	3.61010027	3.64860010	-0.13450000	-0.01140000	1.03600001	-0.00720000
25.	4.89009953	4.35820007	-0.17440000	-0.04370000	1.14630020	-0.00735000
30.	6.41459990	5.26459980	-0.19630000	-0.08650000	1.26479995	-0.00730000
35.	8.14910126	6.48519993	-0.21709991	-0.12100000	1.40639985	-0.01795000
40.	9.74760056	7.79520035	-0.24270000	-0.15210000	1.51979983	-0.03290000
45.	11.37089825	8.99819946	-0.26269990	-0.17500000	1.57570004	-0.04515000
50.	12.81819916	10.30730057	-0.27749991	-0.19610000	1.57760000	-0.06030000
55.	14.14209938	12.03800011	-0.29210001	-0.21359991	1.53900003	-0.06625000
60.	15.35649967	13.82829952	-0.30059990	-0.22310001	1.45770001	-0.07310000
65.	16.44436836	15.04499626	-0.31024751	-0.22411740	1.36753285	-0.08255000
70.	17.34416962	16.11140060	-0.31086570	-0.23995000	1.25715351	-0.08367040
75.	18.00823021	16.82481003	-0.30948910	-0.26764610	1.15252495	-0.07730120
80.	18.52659988	17.22608566	-0.30138800	-0.31302601	1.02346921	-0.07658780
85.	18.77322197	17.21567535	-0.30570811	-0.34306011	0.89284420	-0.07638040
90.	18.69527054	16.68489838	-0.31186500	-0.35174930	0.74003983	-0.07860520
95.	18.41891670	15.98899078	-0.31559610	-0.35972020	0.54940552	-0.08157880
100.	17.91775894	15.15542603	-0.31144950	-0.35613200	0.29631650	-0.08199820
105.	17.24049759	13.96829796	-0.31869990	-0.35004440	-0.03262140	-0.08124700
110.	16.38682556	12.55500031	-0.34385431	-0.34192041	-0.48330101	-0.07856790
115.	15.22180080	11.32319355	-0.34994790	-0.31071720	-0.98495531	-0.07501200
120.	14.03039932	10.16366959	-0.33603990	-0.25576001	-1.50779140	-0.06610000
125.	12.86263752	9.01675224	-0.29903990	-0.22663200	-1.99427545	-0.05392800
130.	11.62060070	7.73290825	-0.26296070	-0.18567050	-2.43375587	-0.04574660
135.	9.83045483	6.45663834	-0.33746889	-0.15780170	-2.77258158	-0.04008000
140.	8.27214909	5.40315342	-0.41114521	-0.13937840	-3.01893330	-0.03535490
145.	6.60107613	4.42347288	-0.35139000	-0.21054810	-3.18971944	-0.03099890
150.	4.95702839	3.45240211	-0.34314400	-0.16059540	-3.30346179	-0.02547270
155.	3.38280272	2.64750004	-0.23946181	-0.14316750	-3.32991552	-0.01522390
160.	2.09081101	1.64674211	-0.07331210	-0.13915220	-3.37749314	-0.01205800
165.	1.26739717	0.64007711	0.10418390	0.01321590	-3.42549634	-0.00650050
170.	0.62353110	-0.01965630	0.14780001	-0.03445000	-3.48547077	-0.00517400
175.	0.22351991	-0.24458000	0.09040000	-0.01100000	-3.50942445	-0.00103210
180.	0.01733990	-0.07180000	-0.00320000	-0.06460000	-3.52968526	0.00002670

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

MACH= 3.48
PHI= 45.

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.06000000	0.13670000	0.00210000	-0.05430000	0.78080000	-0.06470000
5.	0.61650002	1.37490010	0.03390000	-0.09379990	0.78670001	-0.00377500
10.	1.34869993	2.50000000	0.06810000	-0.07070000	0.82489991	0.01185000
15.	2.33610010	3.25649977	0.07670000	-0.00690000	0.86979991	0.01857500
20.	3.61950016	4.00829983	0.08020000	0.03300000	0.93989992	0.01200000
25.	4.99310017	4.74820042	0.10590000	0.05880000	1.03099990	-0.00177500
30.	6.53579998	5.73310041	0.15899990	0.08750000	1.13189995	-0.01635000
35.	8.26589966	7.11320066	0.23769990	0.1333001	1.23810005	-0.03092500
40.	9.89780045	8.57659912	0.30549991	0.17060000	1.35360003	-0.04330000
45.	11.37779999	9.83419991	0.38200000	0.20469990	1.44579995	-0.05557490
50.	12.84900188	11.09189987	0.45449990	0.28430000	1.47710001	-0.07485000
55.	14.08600044	12.28389931	0.52989990	0.3790991	1.46920002	-0.13652490
60.	15.24229908	13.77920055	0.60519987	0.47310001	1.41669965	-0.15591300
65.	16.32189941	14.94630146	0.67457467	0.54881412	1.33348560	-0.16596930
70.	17.12829590	15.68509960	0.76437980	0.63023192	1.23990774	-0.17865790
75.	17.84469604	16.34630585	0.81974781	0.68537980	1.13734412	-0.18542500
80.	18.37989807	16.63719940	0.86315280	0.76145440	1.00543213	-0.19132400
85.	18.61168671	16.45177078	0.85256422	0.78088641	0.88614452	-0.18844829
90.	18.59598160	15.85618305	0.84475851	0.80031812	0.74879432	-0.19074610
95.	18.36767578	14.99411201	0.83150393	0.84173590	0.57399881	-0.19181661
100.	17.93660164	13.97190094	0.81040382	0.87912017	0.31873131	-0.18269160
105.	17.22905731	12.77054882	0.76951551	0.92787582	-0.02852420	-0.17615600
110.	16.35720062	11.67428017	0.73339152	0.92401153	-0.46441931	-0.16390000
115.	15.21109962	10.49461555	0.63982707	0.85726351	-0.96459812	-0.15127790
120.	14.05249977	9.28058815	0.60319990	0.78910983	-1.49060011	-0.14418991
125.	12.93139935	8.18860912	0.55468982	0.72249991	-1.98651004	-0.12992001
130.	11.31513023	7.10630417	0.49980110	0.66134852	-2.43870163	-0.11230001
135.	9.81644726	6.11834240	0.32881442	0.39483550	-2.74771452	-0.09879991
140.	8.28978348	5.31167412	0.06267211	0.03313389	-3.00040817	-0.08093610
145.	6.61428642	4.42204142	-0.10504790	0.01918011	-3.12333965	-0.06433170
150.	4.93512821	3.48118162	-0.13797989	0.03127390	-3.23772025	-0.04608270
155.	3.48571539	2.64394188	-0.07537510	0.07020360	-3.31390762	-0.03128690
160.	2.26697445	1.75308394	-0.14560011	0.01558889	-3.35289097	-0.01928640
165.	1.28966212	0.61558467	-0.03419880	0.22575721	-3.41907167	-0.01053280
170.	0.52666742	-0.14480031	0.04689350	0.31823280	-3.49837971	-0.00693910
175.	0.16339990	-0.28637990	0.02962660	0.23404351	-3.53528023	-0.00315670
180.	-0.02460000	-0.02208000	0.03349990	0.00200000	-3.55554342	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

MACH= 3.48
PHI= 90.

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.07570000	0.16020000	-0.01920000	-0.05400000	0.78139991	0.00850000
5.	0.56779993	1.27040005	-0.00660000	-0.07130000	0.78079993	0.00801760
10.	1.26659966	2.33610010	0.00420000	-0.08460000	0.81099981	0.00751900
15.	2.31040001	3.03840017	0.00390000	-0.06820000	0.85920000	0.00690900
20.	3.62389994	3.70790005	-0.00750000	-0.02510000	0.93089992	0.00630000
25.	4.91250038	4.45250034	-0.02790000	0.03080000	1.05130005	-0.00217500
30.	6.53260040	5.32240057	-0.03800000	0.06680000	1.17619991	-0.00725000
35.	8.26239967	6.43239975	-0.04240000	0.11319990	1.29069996	-0.01062500
40.	9.82550049	7.52630043	-0.04740000	0.14420000	1.39129984	-0.01190000
45.	11.33410072	8.55400085	-0.05720000	0.15689990	1.46570003	-0.01927500
50.	12.73950005	9.87610054	-0.05860000	0.16960000	1.49869990	-0.02519170
55.	14.02829933	11.26639938	-0.06230000	0.18380000	1.48270011	-0.03081530
60.	15.16910076	12.71010017	-0.05600000	0.19800000	1.41580021	-0.03435520
65.	16.27704620	13.86103630	-0.04341070	0.21130350	1.34767473	-0.03789520
70.	17.20079803	14.98230743	-0.02535200	0.19248000	1.23669600	-0.03257400
75.	17.93840027	15.72639084	-0.01606800	0.17580000	1.12361193	-0.03106900
80.	18.40480042	16.02989960	0.00436800	0.18451190	0.99093193	-0.03262000
85.	18.68910980	15.99611950	-0.00441030	0.17624390	0.86666232	-0.02726160
90.	18.66867828	15.49707031	-0.02329040	0.14304270	0.71582842	-0.02549830
95.	18.44014359	14.74906063	-0.03999560	0.11202390	0.53188801	-0.02585220
100.	18.00147057	13.77946854	-0.02366620	0.11250570	0.28085640	-0.02395040
105.	17.34667969	12.46551132	-0.00500080	0.08642800	-0.03388540	-0.01317920
110.	16.40924072	11.26806545	-0.00275200	0.04396670	-0.45386970	-0.01087520
115.	15.31699944	10.09139824	-0.00377960	0.06059000	-0.93462002	-0.01358000
120.	14.12199974	8.86928844	0.00820000	0.09051000	-1.47462010	-0.01825000
125.	12.87499046	7.73190975	0.01120000	0.15178990	-1.99003994	-0.02118000
130.	11.37160873	6.64140224	0.02249010	0.16624311	-2.44904375	-0.01902460
135.	9.78871536	5.73430109	-0.12237611	0.10067990	-2.78241611	-0.01727150
140.	8.23050308	4.90300274	-0.38991991	-0.02430000	-3.03225660	-0.01574410
145.	6.63475323	4.12800169	-0.36504000	-0.05881200	-3.16766262	-0.01377830
150.	5.09370899	3.46231508	-0.22747961	-0.15855740	-3.24258804	-0.01123240
155.	3.61897182	2.78217220	-0.04344790	-0.14533800	-3.30408001	-0.00816070
160.	2.29624748	1.76878846	0.06861150	0.04645400	-3.34819770	-0.00386470
165.	1.26998484	0.63491732	0.09966410	0.14076200	-3.37768531	-0.00123530
170.	0.54985702	-0.16667441	-0.06795000	-0.15172040	-3.43717957	-0.00059090
175.	0.15579990	-0.31352001	0.00240000	-0.01086000	-3.48175311	0.00057780
180.	-0.04539990	-0.06192000	0.04320000	0.04279990	-3.52362871	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 3.48
PHI= 135.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.04480000	0.08000000	-0.02240000	0.00540000	0.78929991	-0.00240000
5.	0.40880001	1.14349985	-0.03360000	0.02060000	0.81779993	-0.00197500
10.	1.26099992	2.41660023	-0.08610000	0.01280000	0.83939987	-0.00415000
15.	2.22770023	3.87040000	-0.13659990	-0.04330000	0.89590001	0.00217500
20.	3.47690010	3.81689978	-0.18939990	-0.03400000	0.99710000	0.01420000
25.	4.79269981	4.49219990	-0.26120001	0.01060000	1.10780001	0.02252500
30.	6.47370005	5.48770094	-0.35490000	-0.01010000	1.25689995	0.02565000
35.	8.16430092	6.88210011	-0.45829991	-0.13810000	1.37080002	0.03307500
40.	9.69510078	8.06380081	-0.55499983	-0.22479990	1.47930002	0.04280000
45.	11.08250046	9.14739990	-0.65530002	-0.29789990	1.56599975	0.05382500
50.	12.42910004	10.19969845	-0.72939992	-0.44459990	1.60990000	0.06965000
55.	13.61280060	11.55629921	-0.77699977	-0.52170002	1.59819984	0.10107499
60.	14.85230064	13.07500172	-0.82229990	-0.69069988	1.53999984	0.11999990
65.	15.91130066	14.55680180	-0.86319977	-0.77579981	1.43700004	0.14402491
70.	16.84489822	15.62079906	-0.88689983	-0.83029991	1.30279994	0.17295000
75.	17.49449921	16.29230118	-0.91059983	-0.85560000	1.17000020	0.18957490
80.	17.98239899	16.53039932	-0.93379992	-0.87179983	1.00979996	0.20199990
85.	18.17929840	16.49610138	-0.94289982	-0.87919988	0.85599983	0.21232501
90.	18.20800018	16.06859970	-0.95200002	-0.88459003	0.64349991	0.22004999
95.	18.05469894	14.99119854	-0.92210662	-0.87839991	0.48220000	0.21417500
100.	17.65319824	13.83389950	-0.87290001	-0.87199992	0.25839990	0.20729990
105.	17.08349991	12.51759815	-0.83060002	-0.86029983	-0.05490000	0.19910000
110.	16.34420013	11.41029930	-0.78799993	-0.80589992	-0.48130000	0.19100000
115.	15.37310028	10.33060074	-0.74179977	-0.73650002	-0.96609992	0.18319000
120.	14.25839996	9.23950005	-0.69379991	-0.67879993	-1.47510004	0.16660000
125.	13.04789925	7.86030102	-0.64080000	-0.58550000	-2.00349998	0.14319991
130.	11.61739922	6.40670013	-0.55680001	-0.52240002	-2.39389992	0.11270000
135.	10.15291309	5.43459988	-0.38539991	-0.30109990	-2.76620007	0.08890000
140.	8.65380096	4.77360058	-0.16630000	0.00080010	-3.04069996	0.06886000
145.	6.93980026	4.13320017	-0.00499991	0.02190000	-3.15920019	0.05192960
150.	5.09200001	3.44050002	0.09239998	-0.00949979	-3.21310019	0.03817050
155.	3.71369982	2.68709997	0.11440000	-0.04380000	-3.28800035	0.02621470
160.	2.46350002	1.83999991	0.18720001	-0.02889989	-3.33600020	0.01562410
165.	1.48690021	0.92999983	0.04820000	-0.19770001	-3.40000010	0.00914200
170.	0.69040000	0.15539990	-0.04510000	-0.30280000	-3.43900037	0.00452770
175.	0.26870000	-0.23690000	-0.03520000	-0.22640000	-3.49670005	0.00129500
180.	0.06780000	-0.04270000	-0.02490000	-0.01030000	-3.53720021	0.00000000

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 3.48
PHI= 180.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.04390000	0.02300000	-0.00720000	0.03100000	0.78049977	0.01900000
5.	0.44519991	1.14809990	0.00410000	0.01940000	0.79759991	0.01917500
10.	1.18900013	2.44339991	0.03250000	0.00170000	0.82239991	0.01725000
15.	2.37520003	3.36929989	0.09639990	0.00710000	0.90439981	0.01522500
20.	3.63800014	4.15869999	0.11090000	0.00650000	1.01919985	0.01190000
25.	4.98569965	4.85659981	0.12160000	0.00760000	1.15209985	0.00847500
30.	6.48570013	5.90919971	0.13830000	0.00260000	1.29740000	0.00515000
35.	8.13509941	7.36590052	0.16869991	-0.00170000	1.42450011	0.00242500
40.	9.67550087	8.68390083	0.21070001	-0.00950000	1.52660000	0.00100000
45.	11.10399914	9.74729919	0.24110000	-0.01099990	1.61870003	-0.00042500
50.	12.42539978	10.75119972	0.27399990	-0.01840000	1.69369996	-0.00105000
55.	13.63080025	11.96089935	0.31500000	-0.02089991	1.69239986	-0.00107500
60.	14.77520084	13.61490059	0.36019990	-0.02599980	1.60889995	0.00090000
65.	15.92350101	15.00720112	0.39389980	-0.02140000	1.48210001	0.00367500
70.	16.09680099	15.99690151	0.43070000	-0.01260000	1.35190010	0.00645000
75.	17.65369987	16.60550118	0.46599990	-0.00900000	1.22099996	0.02352500
80.	18.23120117	17.09159851	0.48689991	-0.00900000	1.06329966	0.03000000
85.	18.63459969	17.20409950	0.50769991	-0.00610000	0.92269993	0.05397500
90.	18.74430084	17.03407288	0.52849990	-0.00300000	0.73089987	0.06072960
95.	18.60270119	16.54069901	0.52559990	-0.00539990	0.51329982	0.06162500
100.	17.98989868	15.70369911	0.52189993	-0.00990000	0.25799990	0.05099990
105.	17.16159821	14.31050014	0.51639992	-0.00250000	-0.00729990	0.05690000
110.	16.27899933	13.03479958	0.50440001	-0.00490000	-0.25999981	0.05420000
115.	15.20050086	11.66440105	0.48889950	-0.00730000	-0.51189995	0.05060000
120.	14.01659966	10.34700012	0.46574001	-0.00000000	-1.51530004	0.04700000
125.	12.83380127	9.04990005	0.43650001	-0.00560000	-2.03609991	0.04350000
130.	11.59739971	7.52239990	0.40009990	-0.00200000	-2.50780010	0.04010000
135.	10.10990047	6.20150042	0.44520000	-0.00240000	-2.96950016	0.03410000
140.	8.56960011	5.10500042	0.49290001	-0.00400000	-3.15560007	0.02547170
145.	7.01440001	4.30740023	0.42659992	0.00390000	-3.28060007	0.01772730
150.	5.31659985	3.49140000	0.37099992	0.00120000	-3.34969997	0.01384490
155.	3.55159974	2.80000043	0.24860001	0.00530000	-3.37672782	0.01184700
160.	2.29469991	1.92359996	0.12060000	0.00250000	-3.40890646	0.00790290
165.	1.43049979	0.92129987	-0.00620010	-0.00150000	-3.42929983	0.00267640
170.	0.57679993	0.02210000	-0.00370001	0.00100000	-3.47279978	-0.00052720
175.	0.25369990	-0.22059990	-0.00050000	-0.00460000	-3.51219988	-0.00065280
180.	0.10259990	-0.07110000	-0.00120000	0.00070000	-3.53639984	0.00000000

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A-280

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 3.48
PHI= 225.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.00000000	-0.10750000	0.00250000	0.02990000	0.70799993	0.00990000
5.	0.29659981	0.94000000	0.01720000	0.01910000	0.00629992	0.01132500
10.	1.10299985	2.20550013	0.01390000	0.07269990	0.87159991	0.01335000
15.	2.20049991	3.84150009	-0.00010000	0.14739990	0.95260000	0.01527500
20.	3.40960018	3.65660024	-0.01620000	0.20719990	1.07079995	0.01730000
25.	4.85299969	4.37950039	-0.03180000	0.24739990	1.20819986	0.01962500
30.	6.37460041	5.34560013	-0.05140000	0.27379990	1.35610020	0.02285000
35.	7.82260004	6.41530037	-0.06120000	0.34930000	1.48519993	0.02677500
40.	9.30730049	7.40740005	-0.07040000	0.43409990	1.59349990	0.02890000
45.	10.72160053	8.54940033	-0.09600000	0.50029907	1.68840003	0.03102500
50.	12.08460045	9.72979927	-0.11950000	0.53649992	1.74579990	0.03315000
55.	13.27689934	11.00530140	-0.12230000	0.59619993	1.75139976	0.03447500
60.	14.38032767	12.40229988	-0.12610000	0.63000000	1.69790006	0.04010000
65.	15.47829914	13.78290001	-0.12040000	0.64629990	1.58010006	0.04572500
70.	16.48920059	14.91679955	-0.11330000	0.65939993	1.45040011	0.05105000
75.	17.27239990	15.69099940	-0.10160000	0.66300000	1.30229986	0.05577500
80.	18.00699997	16.40729935	-0.08560000	0.66189992	1.13979995	0.06060000
85.	18.41389847	16.16279984	-0.06960000	0.65670002	0.97829992	0.06532500
90.	18.44609833	16.03450012	-0.06895000	0.64000002	0.80830002	0.06955000
95.	18.22489821	15.26099910	-0.06830000	0.63970000	0.60280001	0.07117500
100.	17.70529938	14.15360165	-0.07070000	0.61699992	0.33719990	0.07540000
105.	17.01240158	13.09390060	-0.06950000	0.57630002	0.02500000	0.04510000
110.	16.13990021	11.92690182	-0.06840000	0.50979990	-0.39489990	0.03760000
115.	15.15440083	10.71020060	-0.06470000	0.42250001	-0.84159982	0.03230000
120.	14.04830170	9.52404499	-0.06236000	0.29869990	-1.29540002	0.02710000
125.	12.91750050	8.22041130	-0.05794350	0.17344000	-1.82879984	0.02410000
130.	11.68409927	6.80684069	-0.04937440	0.08730410	-2.27190010	0.02200830
135.	10.04290009	5.74510530	0.10025641	0.07050130	-2.64979982	0.02229710
140.	8.44429970	4.81682444	0.26299723	0.10744000	-2.90305525	0.02086570
145.	6.69005241	3.90007059	0.21922000	0.10052500	-3.21024095	0.01858120
150.	5.17550765	3.35390197	0.13287991	0.14110000	-3.34060110	0.01496000
155.	3.67479992	2.57690002	0.00170000	0.12960001	-3.40628624	0.00800540
160.	2.24610006	1.56051983	-0.02090000	0.06350900	-3.44058418	0.00551950
165.	1.23496103	0.53190111	0.02286370	0.03827960	-3.46109104	0.00160790
170.	0.53064913	-0.24716070	0.14794990	0.19090000	-3.49167371	0.00041960
175.	0.19129990	-0.36670001	0.05299990	0.01040000	-3.50532770	0.00007000
180.	0.00027990	-0.13689990	0.04180000	-0.00241000	-3.52950001	0.00019770

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FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1709.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 3.40
PHI= 270.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.03370000	0.15100001	-0.00120000	0.02090000	0.79009992	0.00770000
5.	0.44529900	1.25009993	0.00000000	0.00930000	0.62209992	0.01350000
10.	1.19320011	2.29100002	0.00660000	0.00540000	0.06510003	0.01920000
15.	2.09369993	2.80640022	0.01030000	-0.00530000	0.95249993	0.02410000
20.	3.31799904	3.40300025	0.02500000	-0.04450000	1.06449986	0.02890000
25.	4.65709986	3.99000001	0.01640000	-0.08700000	1.19040002	0.02030000
30.	6.17050010	4.96199989	0.01130000	-0.13479990	1.34040012	0.01970000
35.	7.74090009	6.00599957	0.00900000	-0.18269990	1.40370004	0.01730000
40.	9.36020030	7.11900009	0.00390000	-0.21610001	1.60649991	0.00930000
45.	10.00320072	8.11610031	-0.00720000	-0.22019990	1.69059992	0.01100000
50.	12.06690025	8.97090091	-0.02970000	-0.23670000	1.72500004	0.01370000
55.	13.25509040	10.22669903	-0.04100000	-0.24540000	1.73039985	0.01600000
60.	14.29439926	11.22170067	-0.04660420	-0.25909991	1.62079992	0.01990000
65.	15.41900063	13.00539963	-0.04670000	-0.27399990	1.51999974	0.02990000
70.	16.40440178	14.24629974	-0.03660000	-0.27779990	1.37730002	0.04410000
75.	17.30450058	14.87970066	-0.02650000	-0.28310001	1.23529994	0.04940000
80.	17.93909754	15.16050185	-0.01550000	-0.29579991	1.07610011	0.06360000
85.	18.35340110	15.15609945	0.00600000	-0.30199990	0.94299990	0.07220000
90.	18.63420105	14.67731205	0.02900000	-0.29299900	0.78779970	0.07896460
95.	18.46340179	13.96559906	0.00740000	-0.28109990	0.60529977	0.07720000
100.	18.03570175	12.90760040	-0.01450000	-0.27139980	0.36159900	0.07380000
105.	17.32009030	11.72209930	-0.03320000	-0.25039990	0.01040000	0.06940000
110.	16.47129022	10.65350056	0.04090000	-0.24529991	-0.40230000	0.06180000
115.	15.30750076	9.49539940	-0.06460000	-0.22960000	-0.89000002	0.05430000
120.	14.12460041	8.22109890	-0.00020000	-0.21370000	-1.43320000	0.04550000
125.	12.03649921	6.94059992	-0.06620000	-0.18230000	-1.99060011	0.03630000
130.	11.42779922	5.75039959	-0.05170000	-0.16000000	-2.46929979	0.02750000
135.	10.00539970	4.77710009	0.11020001	-0.00769991	-2.00630009	0.02150000
140.	8.49539925	4.05349970	0.26690000	-0.01300000	-3.20380044	0.01931250
145.	6.90139961	3.61490011	0.22360000	0.01600000	-3.33600020	0.01730490
150.	5.27209949	3.26929990	0.12620001	0.09340001	-3.39150023	0.01501450
155.	3.00049904	2.05420012	0.03000030	0.10170001	-3.43629900	0.00918110
160.	2.54000023	1.99949992	-0.00290000	-0.03790000	-3.46960020	0.00340000
165.	1.53390002	1.02009991	0.00510000	-0.02750000	-3.48270011	-0.00027540
170.	0.73729992	0.24259900	0.01150000	-0.01710000	-3.50929999	-0.00007910
175.	0.27120000	-0.06000770	0.02230000	-0.00020000	-3.52759901	0.00197920
180.	0.07200000	-0.00140000	0.01030000	-0.00270000	-3.53970003	0.00007670

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1709.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 3.40
PHI= 315.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	0.01500000	0.03040000	0.01030000	0.00150000	0.70069992	0.01190000
5.	0.29579991	1.05939984	-0.00620000	0.04700000	0.00479991	0.00530000
10.	0.95779991	2.13259983	-0.00710000	0.12709990	0.03040001	-0.00960000
15.	1.93450010	2.02040014	-0.00035009	0.04470000	0.98020001	-0.02370000
20.	3.15990043	3.55219984	-0.00057140	-0.06010000	0.99790001	-0.01930000
25.	4.58099982	4.25189972	-0.01060070	-0.21370000	1.12389994	-0.01290000
30.	5.81710005	5.05020046	-0.01300000	-0.31299990	1.26399994	-0.00820000
35.	7.40400020	6.29259960	-0.02390000	-0.37959990	1.40569985	-0.01070000
40.	8.94389915	7.50749962	-0.04010000	-0.45179990	1.53169990	-0.01220000
45.	10.42729950	8.66790009	-0.06010000	-0.52170002	1.63519990	-0.01100000
50.	11.68449974	9.56719971	-0.08070000	-0.55059907	1.67319965	-0.01110000
55.	12.81590176	10.74769974	-0.09660000	-0.56705773	1.64029981	-0.00730000
60.	14.00090027	12.34410095	-0.11260000	-0.57349992	1.57449905	-0.00100000
65.	15.23240089	13.85069942	-0.10660000	-0.55190003	1.42919993	0.00900000
70.	16.31559944	14.57469940	-0.09700000	-0.53199983	1.32009995	0.03866660
75.	17.22009992	15.00760166	-0.08630000	-0.51109987	1.20199990	0.05820000
80.	17.99629974	15.30769913	-0.07430000	-0.47770000	1.05359995	0.07260000
85.	18.46120071	15.42709936	-0.06220000	-0.43759990	0.90029992	0.08470000
90.	18.72399902	15.19359970	-0.04300000	-0.39029990	0.77520001	0.09014610
95.	18.66270065	14.74180031	-0.06030000	-0.35009980	0.58190000	0.09130000
100.	18.10020065	13.75149918	-0.00200000	-0.30260000	0.29509998	0.08440000
105.	17.34510040	12.71009935	-0.10190000	-0.25799990	-0.01190000	0.07630000
110.	16.43019867	11.51999950	-0.12060000	-0.21770000	-0.44159991	0.06630000
115.	15.32000116	10.47349834	-0.13740000	-0.21450000	-0.92760003	0.05380000
120.	14.09059840	9.13149929	-0.14099190	-0.20964991	-1.44490004	0.04027140
125.	12.70059909	7.91389990	-0.12709990	-0.20479991	-1.99739993	0.03170000
130.	11.42680155	6.62619972	-0.10609990	-0.21789990	-2.44029999	0.02110000
135.	9.94330025	5.43769979	0.06300001	-0.15989991	-2.84289991	0.01069050
140.	8.37000026	4.50140965	0.23310001	-0.07139999	-3.14930034	0.01622200
145.	6.81919956	3.87690020	0.28550001	-0.02029990	-3.29190016	0.01459020
150.	5.34729950	3.55629969	0.11240001	0.14780001	-3.30679981	0.01240600
155.	3.81819974	2.97719979	0.02940000	0.13030000	-3.42329979	0.00950430
160.	2.44290018	2.63329992	-0.03970000	-0.05000000	-3.46140003	0.00533070
165.	1.38070023	1.00659990	-0.05760000	-0.12340000	-3.50220037	0.00271650
170.	0.66109592	0.24360000	-0.05490000	-0.12209990	-3.52700000	0.00060040
175.	0.22060000	-0.11620000	-0.02020000	-0.10550000	-3.54169989	-0.00040000
180.	0.00630000	0.00040000	0.01500000	-0.06190000	-3.54689980	0.00009270

FILAMENT WOUND CASE RIGHT SIDE SRB STATIC STABILITY COEFFICIENTS

DREF=146 IN
LREF=1789.6 IN
MRP=.59*LREF (STA 1255.9)

MACH= 3.40
PHI= 360.

ALPHA	CN	CM	CY	CYM	CA	CR
0.	-0.02530000	-0.05850000	0.02150000	-0.02100000	0.78789991	0.00160000
5.	0.54330003	1.11269975	-0.00690000	-0.02350000	0.80030002	-0.00425000
10.	1.29100013	2.24480009	-0.02340000	0.01060000	0.85259992	-0.00520000
15.	2.30139995	2.94850016	-0.0929999[illegible]	0.01360000	0.93589998	-0.00625000
20.	3.61010027	3.64860010	-0.13450000	-0.01140000	1.03600001	-0.00720000
25.	4.89089953	4.35020007	-0.17440000	-0.04370000	1.14630020	-0.00735000
30.	6.41459990	5.26459980	-0.19630000	-0.08650000	1.26479995	-0.00730000
35.	8.14910126	6.48519993	-0.21709991	-0.12100000	1.40639985	-0.01795000
40.	9.74760056	7.79520035	-0.24270000	-0.15210000	1.51979983	-0.03290000
45.	11.37089825	8.99819946	-0.26269990	-0.17500000	1.57570004	-0.04515000
50.	12.81819916	10.30730057	-0.27749991	-0.19610000	1.57760000	-0.06030000
55.	14.14209938	12.03800011	-0.29210001	-0.21359991	1.53900003	-0.06625000
60.	15.35649967	13.82829952	-0.30059990	-0.22310001	1.45770001	-0.07310000
65.	16.44436836	15.04499626	-0.31024751	-0.22411740	1.36753285	-0.00255000
70.	17.34416962	16.11140060	-0.31086570	-0.23995000	1.25715351	-0.00367040
75.	18.00823021	16.82481003	-0.30940910	-0.26764610	1.15252495	-0.[illegible]30120
80.	18.52659988	17.22600566	-0.30130000	-0.31302601	1.02346921	-0.07650780
85.	18.77322197	17.21567535	-0.30570811	-0.34306011	0.89284420	-0.07630040
90.	18.69527054	16.68489838	-0.31186500	-0.35174930	0.74003983	-0.07860520
95.	18.41891670	15.98899078	-0.31559610	-0.35972020	0.54940552	-0.00157800
100.	17.91775894	15.15542603	-0.31144950	-0.35613200	0.29631650	-0.00199820
105.	17.24049759	13.96829796	-0.31069990	-0.35004440	-0.03262140	-0.00124700
110.	16.38682556	12.55500031	-0.34385431	-0.34192041	-0.48330101	-0.07056790
115.	15.22180080	11.32319355	-0.34994790	-0.31071720	-0.98495531	-0.07501200
120.	14.03039932	10.16366959	-0.33603990	-0.25576001	-1.50779140	-0.06610000
125.	12.86263752	9.01675224	-0.29903990	-0.22663200	-1.99427545	-0.05392000
130.	11.62060070	7.73290825	-0.26296070	-0.18567050	-2.43375587	-0.04574660
135.	9.83045483	6.45663834	-0.33746089	-0.15700170	-2.77258158	-0.04000000
140.	8.27214909	5.40315342	-0.41114521	-0.13937840	-3.01893330	-0.03535490
145.	6.60107613	4.42347208	-0.35139000	-0.21054810	-3.18971944	-0.03099890
150.	4.95702839	3.45240211	-0.34314400	-0.16059540	-3.30346179	-0.02547270
155.	3.38280272	2.64750004	-0.23946181	-0.14316750	-3.32991552	-0.01522390
160.	2.09081101	1.64674211	-0.07331210	-0.13915220	-3.37749314	-0.01205800
165.	1.26739717	0.64007711	0.10418390	0.01321590	-3.42549634	-0.00650050
170.	0.62353110	-0.01965630	0.14780001	-0.03445000	-3.48547077	-0.00517400
175.	0.22351991	-0.24458000	0.09040000	-0.01100000	-3.50942445	-0.00103210
180.	0.01733990	-0.07180000	-0.00320000	-0.06460000	-3.52968526	0.00002670

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